CDX-GT210/GT212/ GT262/GT262S

SERVICE MANUAL

Ver. 1.3 2007.03

AEP Model
UK Model
CDX-GT210/GT212
E Model
CDX-GT262/GT262S
Saudi Arabia Model
CDX-GT262

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-GT111/GT161/GT161S
CD Drive Mechanism Type	MG-101TA-188//Q
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

CD player section

Signal-to-noise ratio	95 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 108 MHz (CDX-GT210/GT212/GT262: EA) 87.5 – 108 MHz (at 50 kHz step) (CDX-GT262: IND/GT262S) 87.5 – 107.9 MHz (at 200 kHz step) (CDX-GT262: IND/GT262S)
FM tuning interval	50 kHz/200 kHz switchable (CDX-GT262: IND/GT262S)
Antenna (aerial) terminal	External antenna (aerial) connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz (CDX-GT210/GT212/GT262: EA) LW: 153 – 279 kHz (CDX-GT210/GT212: EA) MW: 531 – 1,602 kHz (at 9 kHz step) (CDX-GT262: IND/GT262S) MW: 530 – 1,710 kHz (at 10 kHz step) (CDX-GT262: IND/GT262S)
MW tuning interval	9 kHz/10 kHz switchable (CDX-GT262: IND/GT262S)
Antenna (aerial) terminal	External antenna (aerial) connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV, LW: 40 µV

SW (CDX-GT262/GT262S)

Tuning range	SW1: 2,940 – 7,735 kHz SW2: 9,500 – 18,135 kHz (except for 10,140 – 11,575 kHz)
Antenna (aerial) terminal	External antenna (aerial) connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

– Continued on next page –

FM/MW/LW COMPACT DISC PLAYER
CDX-GT210/GT212
FM/MW/SW COMPACT DISC PLAYER
CDX-GT262/GT262S

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eVehicle Division
Published by Sony Techno Create Corporation

SONY®

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms) (CDX-GT210/GT212/GT262: EA) 50 W × 4 (at 4 ohms) (CDX-GT262: IND/GT262S)

General

Output	Power antenna (aerial) relay control terminal
Inputs	Telephone ATT control terminal (CDX-GT210/GT212) Antenna (aerial) input terminal AUX input jack (stereo mini jack)
Tone controls	Low: ±10 dB at 100 Hz High: ±10 dB at 10 kHz
Loudness	+9 dB at 100 Hz +5 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground (earth))
Dimensions	Approx. 178 × 50 × 179 mm (7 1/8 × 2 × 7 1/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 11 oz.)
Supplied accessories	Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

- Abbreviation
  EA : Saudi Arabia model
  IND : Indian model

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

TEST DISCS

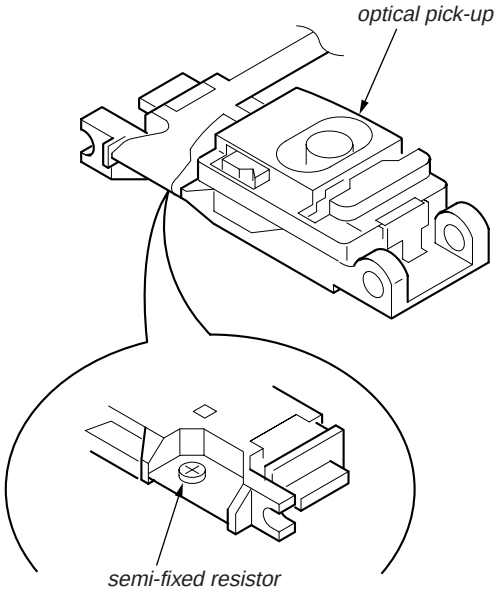
Please use the following test discs for the check on the CD section.

YDES-18 (Part No. 3-702-101-01)
PATD-012 (Part No. 4-225-203-01)

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

- **CD Playback**
  You can play CD-DA (also containing CD TEXT*) and CD-R/CD-RW (MP3/WMA files also containing Multi Session).

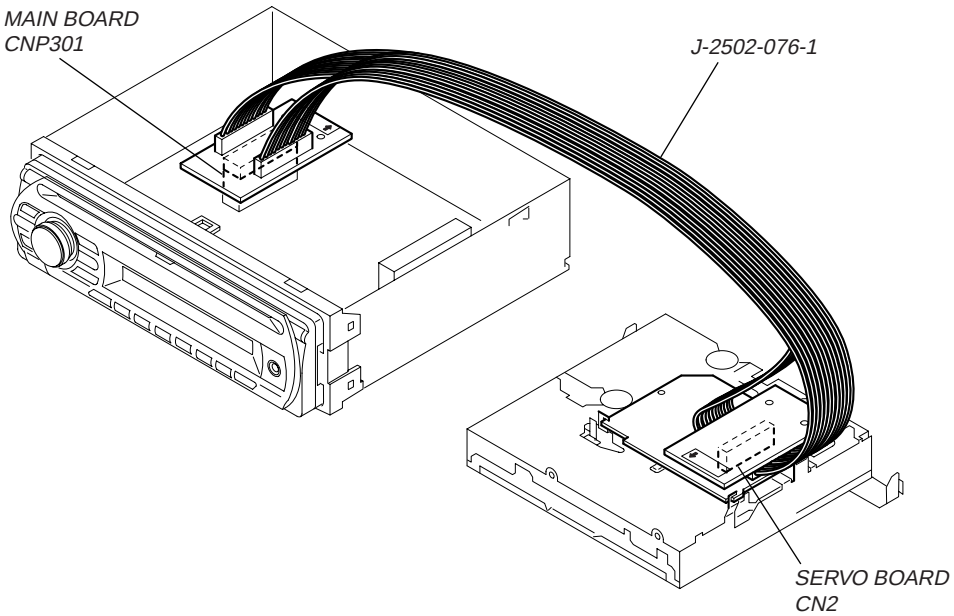
Type of discs	Label on the disc
CD-DA	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable
MP3 WMA	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable

* A CD TEXT disc is a CD-DA that includes information such as disc, artist and track name.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CNP301) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).



● **UNLEADED SOLDER**

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

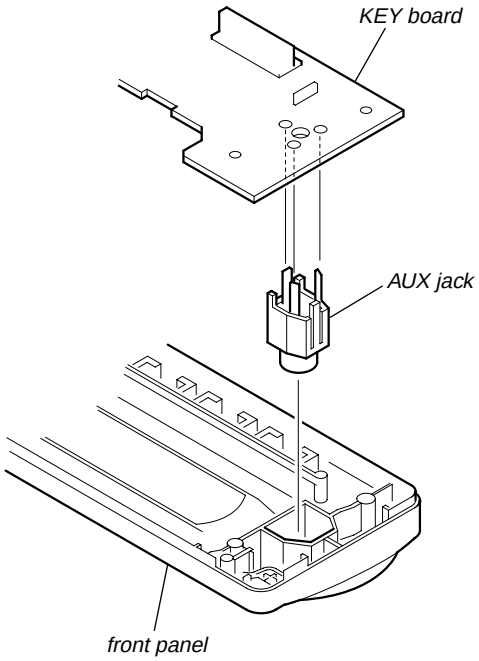
NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (A-1177-201-A) should be replaced since any parts in the SERVO board cannot be repaired.

NOTE FOR REPLACEMENT OF THE AUX JACK (J901)

To replace the AUX jack requires alignment.

1. Insert the AUX jack into the KEY board.
2. Place the KEY board on the front panel.
3. Solder the three terminals of the jack.



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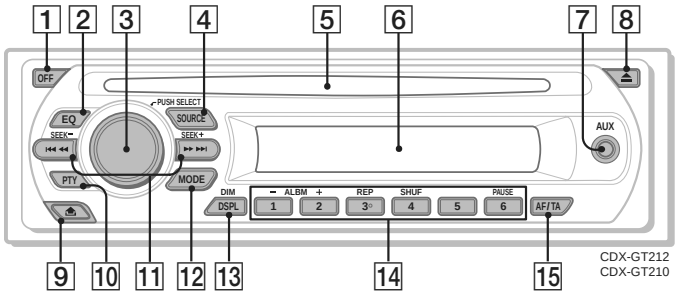
SECTION 1
GENERAL

This section is extracted from instruction manual.

• LOCATION OF CONTROL (CDX-GT210/GT212)

Location of controls and basic operations

Main unit



Refer to the pages listed for details.

1 **OFF button**
To power off; stop the source.

2 **EQ (equalizer) button** 9
To select an equalizer type (XPLOD, NATURAL, HARD, UPBEAT, VOCAL, CUSTOM or OFF).

3 **Volume control dial/select button** 9
To adjust volume (rotate); select setup items (press and rotate).

4 **SOURCE button**
To power on; change the source (Radio/CD/AUX).

5 **Disc slot**
To insert the disc (label side up). Playback starts automatically.

6 **Display window**

7 **AUX input jack** 10
To connect a portable audio device.

8 **⏏ (eject) button**
To eject the disc.

9 **(front panel release) button** 4

10 **PTY (Program Type) button** 9
To select PTY in RDS.

11 **SEEK –/+ buttons**
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).

12 **MODE button** 7
To select the radio band (FM/MW/LW).

13 **DSPL (display)/DIM (dimmer) button** 7, 8
To change display items (press); change the display brightness (press and hold).

14 **Number buttons**
CD:
(1)/(2): **ALBM –/+***
To skip albums (press); skip albums continuously (press and hold).
(3): **REP** 7
(4): **SHUF** 7
(6): **PAUSE**
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).

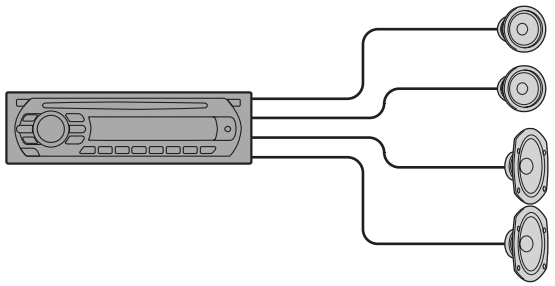
15 **AF (Alternative Frequencies)/TA (Traffic Announcement) button** 8
To set AF and TA in RDS.

** When an MP3/WMA is played.*

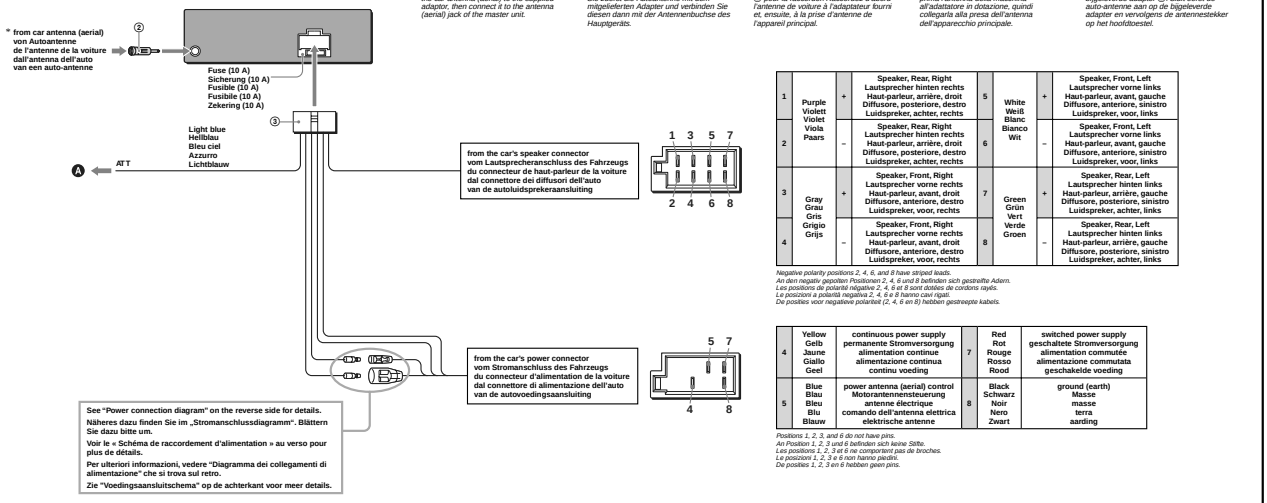
6

• CONNECTIONS (CDX-GT210/GT212)

Connection example
Anschlussbeispiel
Exemple de raccordement
Esempio di collegamento
Voorbeeldaansluitingen



2


* from car antenna (aerial)
von Autoantenne
de l'antenne de la voiture
dall'antenna dell'auto
van een auto-antenne
Fuse (10 A)
Sicherung (10 A)
Fusible (10 A)
Fusible (10 A)
Zekering (10 A)
Light blue
Hellblau
Bleu ciel
Azzurro
Lichtblauw
ATT
from the car's speaker connector
vom Lautsprecheranschluss des Fahrzeugs
du connecteur de haut-parleur de la voiture
dal connettore dei diffusori dell'auto
van de autoluidsprekeraansluiting
1 3 5 7
2 4 6 8
from the car's power connector
vom Stromanschluss des Fahrzeugs
du connecteur d'alimentation de la voiture
dal connettore di alimentazione dell'auto
van de autovoedingsaansluiting
5 7
4 8
See "Power connection diagram" on the reverse side for details.
Näheres dazu finden Sie im „Stromanschlussdiagramm". Blättern Sie dazu bitte um.
Voir le « Schéma de raccordement d'alimentation » au verso pour plus de détails.
Per ulteriori informazioni, vedere "Diagramma dei collegamenti di alimentazione" che si trova sul retro.
Zie "Voedingsaansluitschema" op de achterkant voor meer details.

* *Note for the antenna (aerial) connecting*
If your car antenna (aerial) is an ISO (International Organization for Standardization) type, use the supplied adaptor ② to connect it. First connect the car antenna (aerial) to the supplied adaptor, then connect it to the antenna (aerial) jack of the master unit.

* *Hinweis zum Anschließen der Antenne*
Wenn Ihre Autoantenne der ISO-Norm (Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mithilfe des mitgelieferten Adapters ② an. Verbinden Sie zuerst die Autoantenne mit dem mitgelieferten Adapter und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.

* *Remarque sur le raccordement de l'antenne*
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni ② pour la raccorder. Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.

* *Nota per il collegamento dell'antenna*
Se l'antenna dell'auto è di tipo ISO (International Organization for Standardization), utilizzare l'adattatore ② in dotazione per collegarla. Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.

* *Opmerking bij de antenne-aansluiting*
Indien uw auto is uitgerust met een antenne van het type ISO (International Organisation for Standardization), moet u die aansluiten met behulp van de bijgeleverde adapter ②. Sluit eerst de auto-antenne aan op de bijgeleverde adapter en vervolgens de antennestekker op het hoofdtoestel.

1	Purple Violett Violet Viola Paars	+	Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	5	White Weiß Blanc Bianco Wit	+	Speaker, Front, Left Lautsprecher vorne links Haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
2		–	Speaker, Rear, Right Lautsprecher hinten rechts Haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	6		–	Speaker, Front, Left Lautsprecher vorne links Haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
3	Gray Grau Gris Grigio Grijs	+	Speaker, Front, Right Lautsprecher vorne rechts Haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	7	Green Grün Vert Verde Groen	+	Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4		–	Speaker, Front, Right Lautsprecher vorne rechts Haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	8		–	Speaker, Rear, Left Lautsprecher hinten links Haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links

Negative polarity positions 2, 4, 6, and 8 have striped leads.
An den negativ gepolten Positionen 2, 4, 6 und 8 befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De posities voor negatieve polariteit (2, 4, 6 en 8) hebben gestreepte kabels.

4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding	7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
5	Blue Blau Bleu Blu Blauw	power antenna (aerial) control Motorantennensteuerung antenne électrique comando dell'antenna elettrica elektrische antenne	8	Black Schwarz Noir Nero Zwart	ground (earth) Masse masse terra aarding

Positions 1, 2, 3, and 6 do not have pins.
An Position 1, 2, 3 und 6 befinden sich keine Stifte.
Les positions 1, 2, 3 et 6 ne comportent pas de broches.
Le posizioni 1, 2, 3 e 6 non hanno piedini.
De posities 1, 2, 3 en 6 hebben geen pins.

Connection diagram 2

A To the interface cable of a car telephone

Warning

If you have a power antenna (aerial) without a relay box, connecting this unit with the supplied power supply lead ③ may damage the antenna (aerial).

Notes on the control and power supply leads
- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner, or when you activate the AF (Alternative Frequency) or TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker is not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker is connected correctly.

Anschlussdiagramm 2

A An Schnittstellenkabel eines Autotelefons

Warnung

Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel ③ die Antenne beschädigt werden.

Steuer- und Stromversorgungsleitungen
- *Die Motorantennen-Steuerleitung (blau) liefert +12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluss des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

Stromversorgung des Speichers
Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluss
- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecheranschlüsse nicht mit dem Wagenchassis und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluss.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da das Gerät sonst beschädigt werden könnte.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

Hinweis zum Anschließen
Wenn die Lautsprecher nicht richtig angeschlossen sind, erscheint „FAILURE" im Display. Vergewissern Sie sich in diesem Fall, dass die Lautsprecher richtig angeschlossen sind.

Schémas de raccordement 2

A Vers le cordon de liaison d'un téléphone de voiture

Avertissement

Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du câble d'alimentation fourni ③ risque d'endommager l'antenne.

Remarques sur les câbles de commande et d'alimentation
- *Le câble de commande d'antenne (bleu) fournit du courant continu de +12 V lorsque vous mettez le tuner sous tension ou lorsque vous activez la fonction AF (fréquence alternative) ou TA (messages de radiodiffusion).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW (GO)/LW (PO) intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne (bleu) ou le câble d'alimentation des accessoires (rouge) à la borne d'alimentation de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Raccordement pour la conservation de la mémoire
Lorsque le câble d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est en position d'arrêt.

Remarques sur le raccordement des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas raccorder le câble de mise à la masse de cet appareil à la borne négative (–) du haut-parleur.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Connecter uniquement des haut-parleurs passifs. La connexion de haut-parleurs actifs (avec des amplificateurs intégrés) aux bornes des haut-parleurs pourrait endommager l'appareil.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil dispose d'un câble négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Remarque sur le raccordement
Si les haut-parleurs ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs sont raccordés correctement.

Schema di collegamento 2

A Al cavo interfaccia di un telefono per auto

Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione in dotazione ③, si potrebbe danneggiare l'antenna elettrica se questa non dispone di scatola a relè.

Note sui cavi di controllo e di alimentazione
- *Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore oppure la funzione TA (notiziario sul traffico) o AF (frequenza alternativa).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione accessoria al terminale di alimentazione dell'amplificatore di potenza dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola a relè con questo apparecchio.*

Collegamento per la conservazione della memoria
Quando il cavo di alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.

Note sul collegamento dei diffusori
- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venir danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se l'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

Nota sui collegamenti
Se il diffusore non è collegato correttamente, "FAILURE" viene visualizzato nel display. In tal caso, accertarsi che il diffusore sia collegato correttamente.

Aansluitschema 2

A Naar het interface-snoer van een autotelefoon

Waarschuwing

Indien u een elektrische antenne heeft zonder relaiskast, kan het aansluiten van deze eenheid met de bijgeleverde voedingskabel ③ de antenne beschadigen.

Opmerkingen over de bedienings- en voedingskabels
- *De bedieningskabel van de elektrische antenne (blauw) levert +12 V gelijkstroom wanneer u de tuner inschakelt of de AF (alternatieve frequenties) of TA (verkeersinformatie) functie activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/voorruit, moet u de bedieningskabel van de elektrische antenne (blauw) of de voedingskabel van de accessoires (rood) aansluiten op de voedingsingang van de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een elektrische antenne zonder relaiskast te gebruiken.*

Instandhouden van het geheugen
Zolang de gele voedingskabel is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer de contactschakelaar van de auto wordt uitgeschakeld.

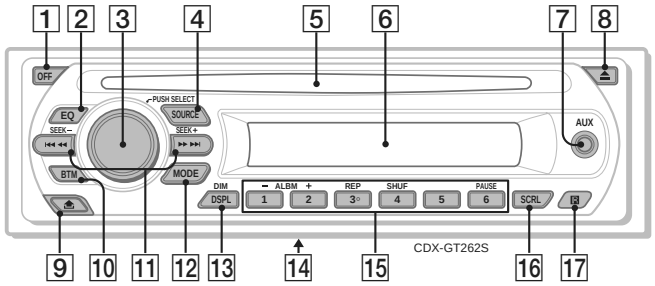
Opmerkingen betreffende het aansluiten van de luidsprekers
- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter- en linkerluidspreker niet op elkaar aan.*
- *Verbind de aarddraad van dit apparaat niet met de negatieve (–) aansluiting van de luidspreker.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidsprekeraansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter- en linkerluidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

Opmerking over aansluiten
Als de luidspreker niet goed is aangesloten, wordt "FAILURE" in het display weergegeven. In dit geval moet u zorgen dat de luidspreker correct is aangesloten.

• LOCATION OF CONTROL (CDX-GT262S)

Location of controls and basic operations

Main unit



Refer to the pages listed for details.

1 **OFF button**
To power off; stop the source.

2 **EQ (equalizer) button** 8
To select an equalizer type (XPLOD, NATURAL, HARD, UPBEAT, VOCAL, CUSTOM or OFF).

3 **Volume control dial/select button** 8
To adjust volume (rotate); select setup items (press and rotate).

4 **SOURCE button**
To power on; change the source (Radio/CD/AUX).

5 **Disc slot**
To insert the disc (label side up). Playback starts automatically.

6 **Display window**

7 **AUX input jack** 10
To connect a portable audio device.

8 **⏏ (eject) button**
To eject the disc.

9 **(front panel release) button** 4

10 **BTM button** 7
To start the BTM function (press and hold).

11 **SEEK –/+ buttons**
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).

12 **MODE button** 7
To select the radio band (FM/MW/SW).

13 **DSPL (display)/DIM (dimmer) button** 7
To change display items (press); change the display brightness (press and hold).

14 **Frequency select switch** (located on the bottom of the unit)
See "Frequency select switch" in the supplied installation/connections manual.

15 **Number buttons**
CD:
①/②: **ALBM –/+***
To skip albums (press); skip albums continuously (press and hold).
③: **REP** 7
④: **SHUF** 7
⑥: **PAUSE**
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).

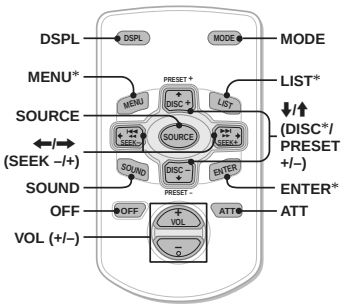
16 **SCRL (scroll) button**
To scroll display item.

17 **Receptor for the card remote commander**

** When an MP3/WMA is played.*

Card remote commander RM-X114

The corresponding buttons on the card remote commander control the same functions as those on this unit.



The following buttons on the card remote commander have also different buttons/functions from the unit. For details, see "With the card remote commander."

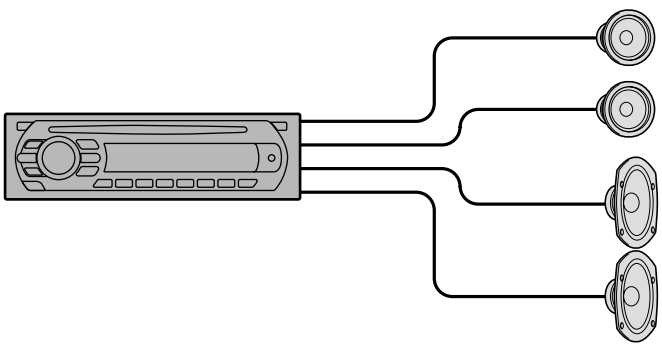
- **SOUND button**
The same as the select button on the unit.
- **←/→ (SEEK –/+) buttons**
To control CD/radio, the same as (SEEK) –/+ on the unit.
- **↑/↓ (DISC*/PRESET +/–) buttons**
To control CD, the same as ①/② (ALBM –/+) buttons on the unit.
- **ATT (attenuate) button**
To attenuate the sound. To cancel, press again.

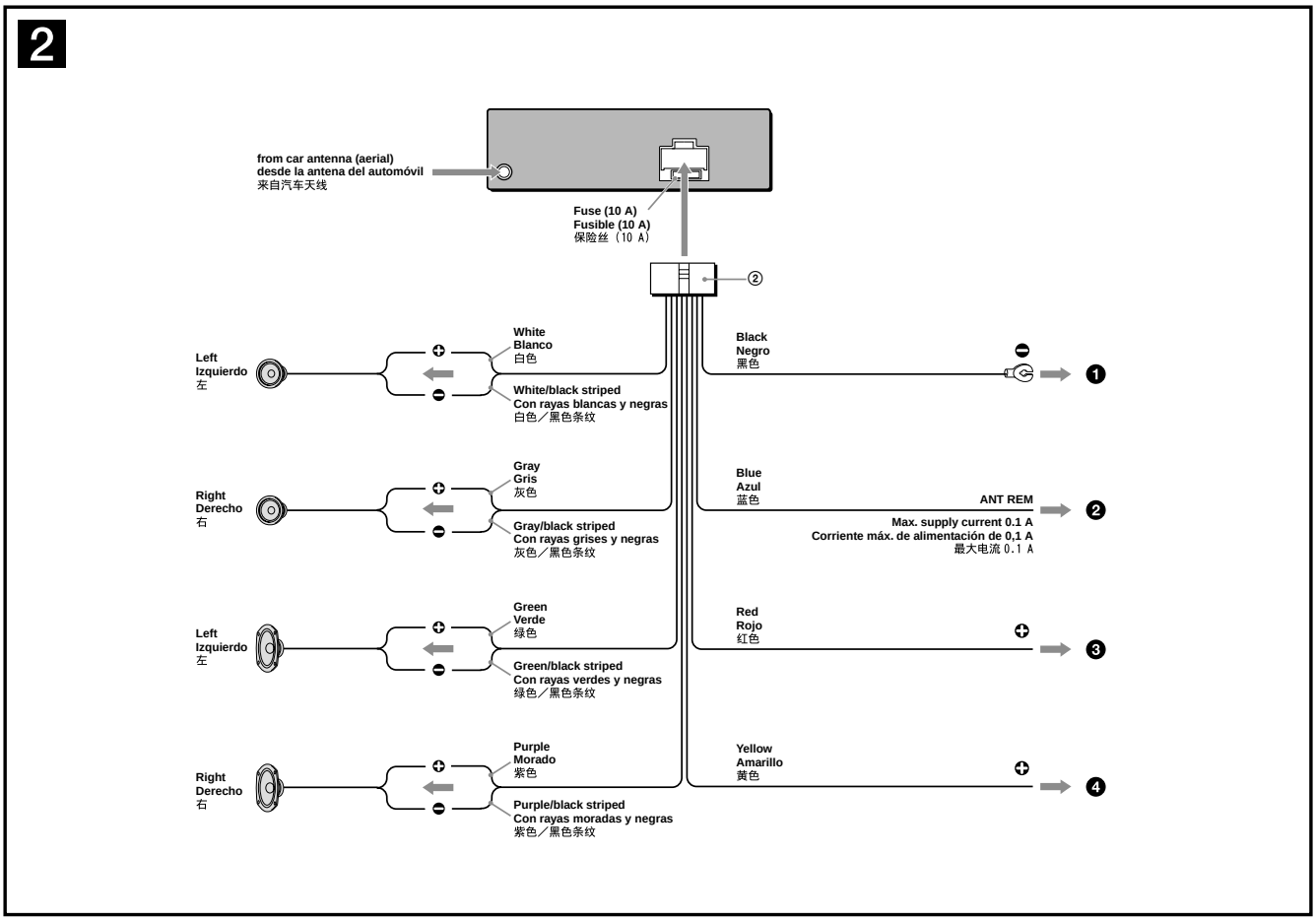
** Not available for this unit.*

Note
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

• CONNECTIONS (CDX-GT262S)

Connection example
Ejemplo de conexiones
线路连接图例





Connection diagram 2

❶ To a metal surface of the car
First connect the black ground (earth) lead, then connect the yellow and red power supply leads.

❷ To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster

Notes
- *It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).*
- *When your car has a built-in FM/MW/SW antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❸ To the + 12 V power terminal which is energized in the accessory position of the ignition switch

Notes
- *If there is no accessory position, connect to the + 12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.*
- *When your car has a built-in FM/MW/SW antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❹ To the + 12 V power terminal which is energized at all times
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

Notes on the control and power supply leads
- *The power antenna (aerial) control lead (blue) supplies + 12 V DC when you turn on the tuner.*
- *When your car has built-in FM/MW/SW antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power supply lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power supply lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker is not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker is connected correctly.

Diagrama de conexión 2

❶ A una superficie metálica del automóvil
Conecte primero el cable de conexión a masa negro, y después los cables amarillo y rojo de fuente de alimentación.

❷ Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena

Notas
- *Si no se dispone de antena motorizada ni de amplificador de señal de la antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/MW/SW en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❸ Al terminal de alimentación de + 12 V que recibe energía en la posición de accesorio del interruptor de la llave de encendido

Notas
- *Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de + 12 V que recibe energía sin interrupción.*
  Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.
- *Si el automóvil incorpora una antena de FM/MW/SW en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❹ Al terminal de alimentación de + 12 V que recibe energía sin interrupción
Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.

Notas sobre los cables de control y de fuente de alimentación
- *El cable de control de la antena motorizada (azul) suministrará cc de + 12 V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/MW/SW incorporada en el cristal trasero o lateral, conecte el cable de control de antena motorizada (azul) o el cable de fuente de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de señal de la antena existente. Para obtener más información, consulte a su distribuidor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

Conexión para protección de la memoria
Si conecta el cable de fuente de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

Notas sobre la conexión de los altavoces
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.*
- *No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.*
- *No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.*
- *Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

Nota sobre la conexión
Si el altavoz no está conectado correctamente, aparecerá "FAILURE" en la pantalla. Si es así, compruebe la conexión del altavoz.

线路连接图 2

❶ 至汽车金属表面
首先连接黑色地线，然后连接黄色和红色电源导线。

❷ 至电动天线控制导线或天线升缩器的电源导线

注
- 如果没有电动天线或天线升缩器，或有手动伸缩式天线，则无需连接此导线。
- 若汽车的后/侧玻璃内有内置 FM/MW/SW 天线，请参阅“关于控制导线和电源导线的注意事项”。

❸ 至 + 12 V 电源端子，该端子在点火开关附件位置通电

注
- 如果没有附件位置，则连接至 + 12 V 电源（蓄电池）端子，该端子随时处于通电状态。
  确保首先将黑色地线连接至汽车金属表面。
- 若汽车的后/侧玻璃内有内置 FM/MW/SW 天线，请参阅“关于控制导线和电源导线的注意事项”。

❹ 至 + 12 V 电源端子，该端子随时处于通电状态
确保首先将黑色地线连接至汽车金属表面。

关于控制导线和电源导线的注意事项
- 接通调谐器电源时，电动天线的控制导线（蓝色）便能提供 + 12 V 直流电。
- 当汽车的后/侧玻璃窗上有内置 FM/MW/SW 天线时，请将电动天线控制线（蓝色）或辅助电源导线（红色）连接至现有天线升缩器上的电源端子上。详细说明，请与您的经销商联系。
- 本机不能使用不具备继电器盒的电动天线。

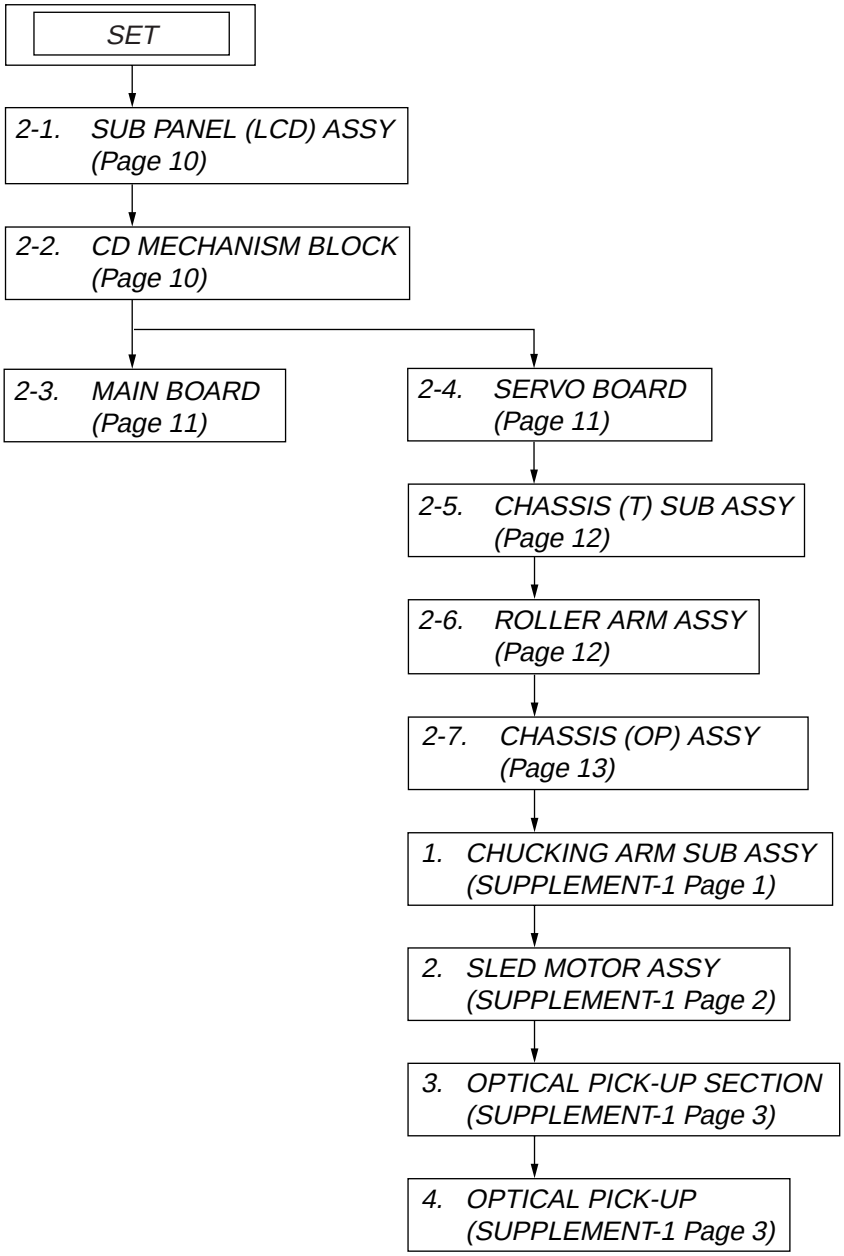
保持记忆的线路连接法
当连接了黄色的电源导线时，即使点火开关关闭，电源仍将对记忆电路供电。

关于扬声器连接的注意事项
- 连接扬声器之前，请关闭本机电源。
- 请使用阻抗为 4–8 欧姆且具有足够功率处理能力的扬声器，以免损坏。
- 勿将扬声器端子连接到汽车底盘上，或将右扬声器的端子与左扬声器的端子连接。
- 勿将本机的地线连接到扬声器的负极（–）端子上。
- 扬声器不可并联连接。
- 请仅连接无源扬声器。将有源扬声器（具有内置放大器）连接到扬声器端子可能会损坏本机。
- 若本机使用左、右扬声器的共用负极（–）导线，为了避免故障，切勿使用安装在汽车内的内置扬声器导线。
- 请勿将本机扬声器导线相互连接。

连接的注意事项
如果未正确连接扬声器，则显示屏上会出现“FAILURE”。这时，请确保扬声器连接正确。

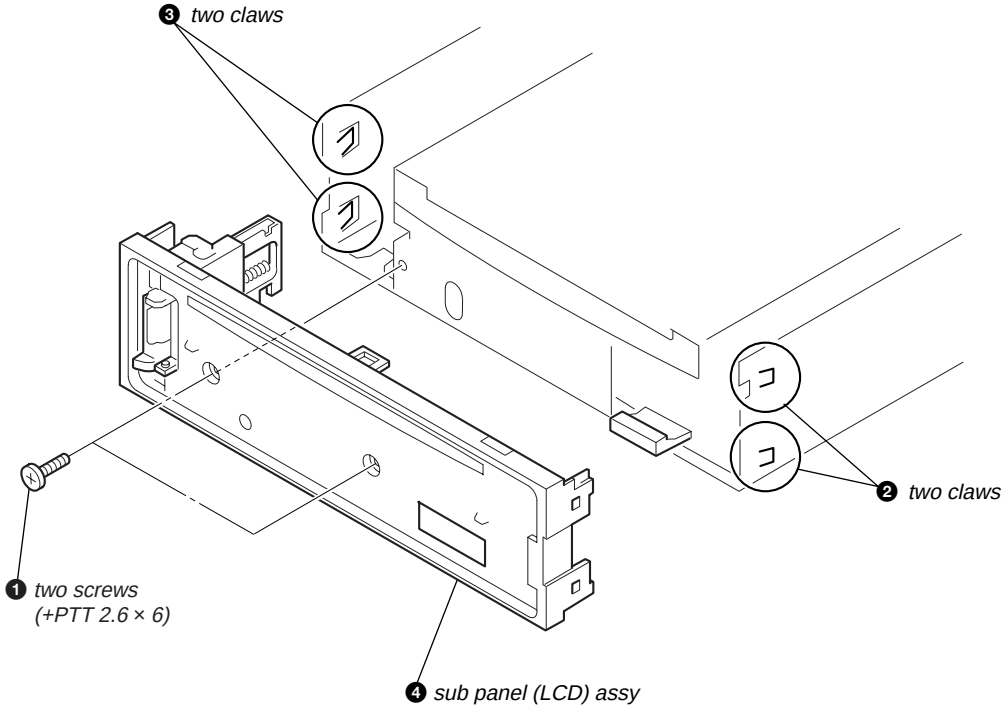
SECTION 2
DISASSEMBLY

Note: This set can be disassemble according to the following sequence.

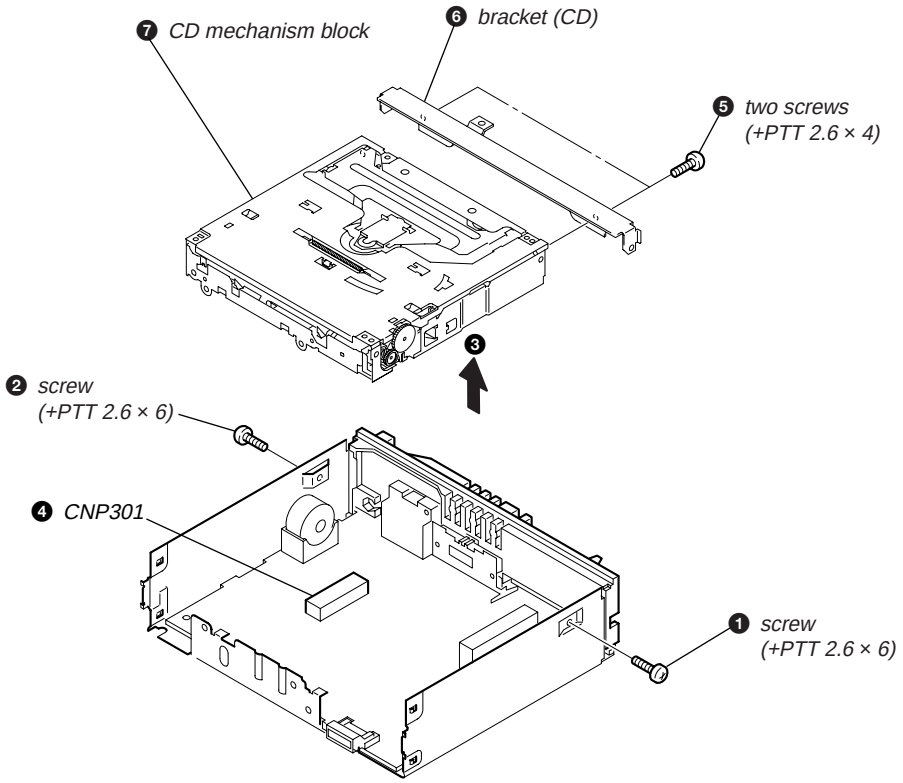

SET
2-1. SUB PANEL (LCD) ASSY (Page 10)
2-2. CD MECHANISM BLOCK (Page 10)
2-3. MAIN BOARD (Page 11)
2-4. SERVO BOARD (Page 11)
2-5. CHASSIS (T) SUB ASSY (Page 12)
2-6. ROLLER ARM ASSY (Page 12)
2-7. CHASSIS (OP) ASSY (Page 13)
1. CHUCKING ARM SUB ASSY (SUPPLEMENT-1 Page 1)
2. SLED MOTOR ASSY (SUPPLEMENT-1 Page 2)
3. OPTICAL PICK-UP SECTION (SUPPLEMENT-1 Page 3)
4. OPTICAL PICK-UP (SUPPLEMENT-1 Page 3)

Note: Follow the disassembly procedure in the numerical order given.

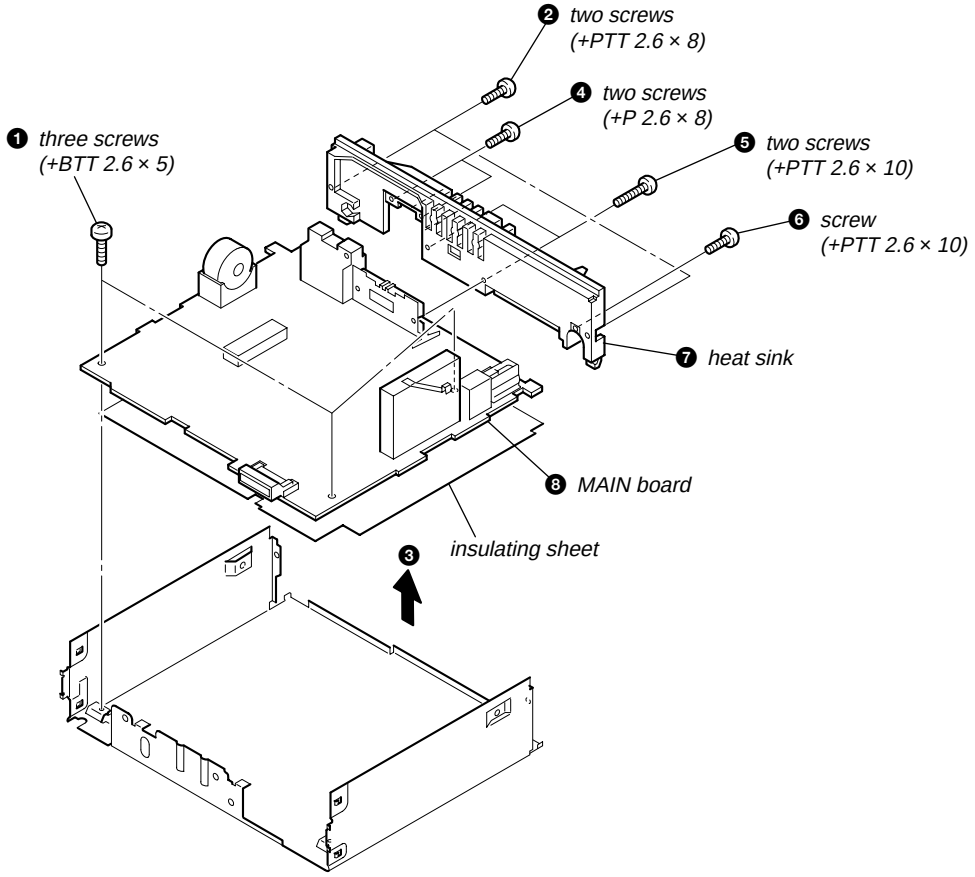
2-1. SUB PANEL (LCD) ASSY



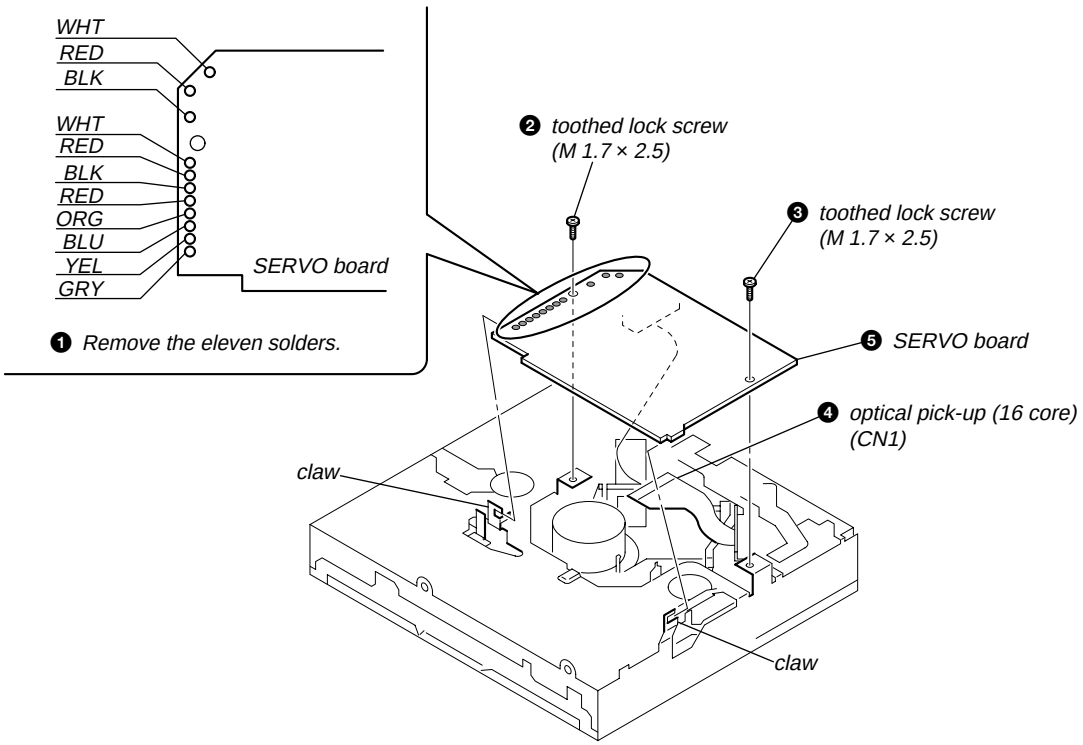
2-2. CD MECHANISM BLOCK



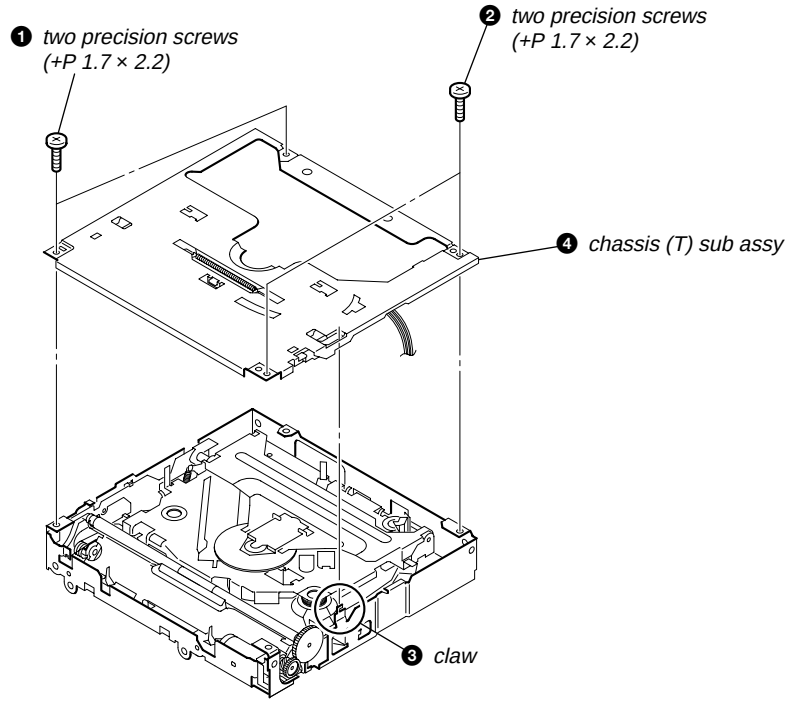
2-3. MAIN BOARD



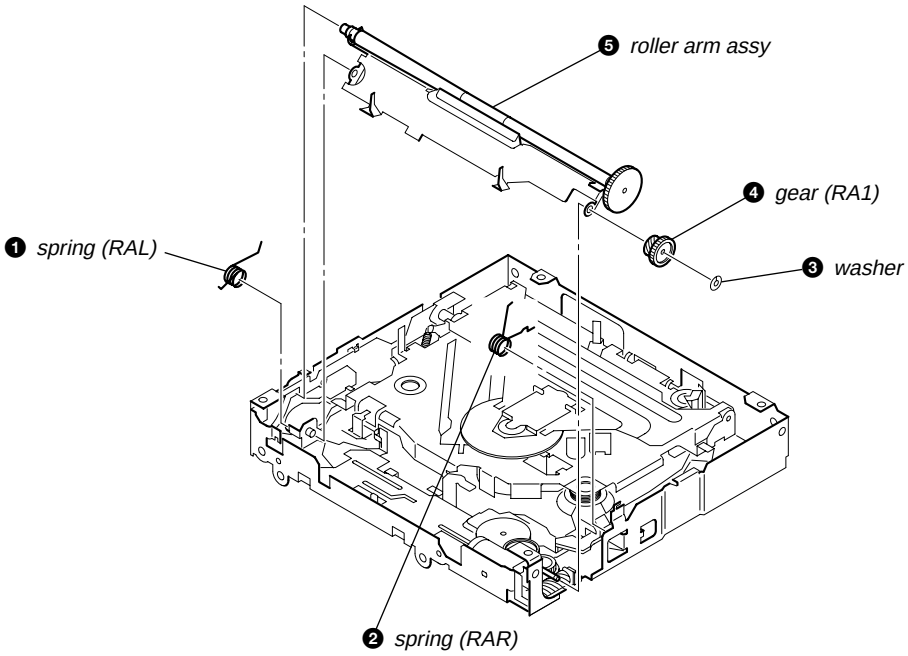
2-4. SERVO BOARD



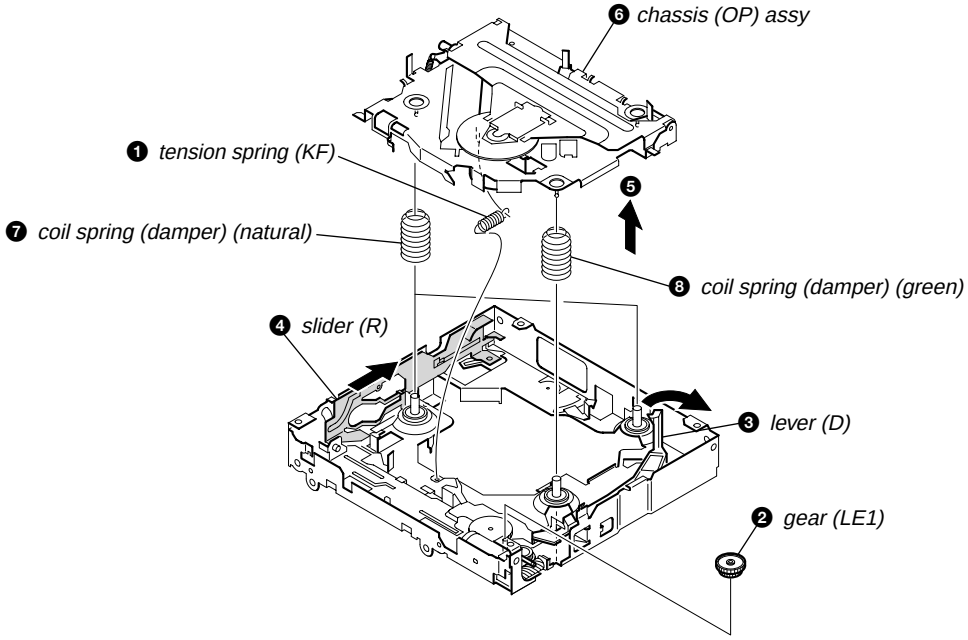
2-5. CHASSIS (T) SUB ASSY



2-6. ROLLER ARM ASSY



2-7. CHASSIS (OP) ASSY



SECTION 3
DIAGNOSIS FUNCTION

Description of the Diagnostics function:

1. Setting the Diag display mode

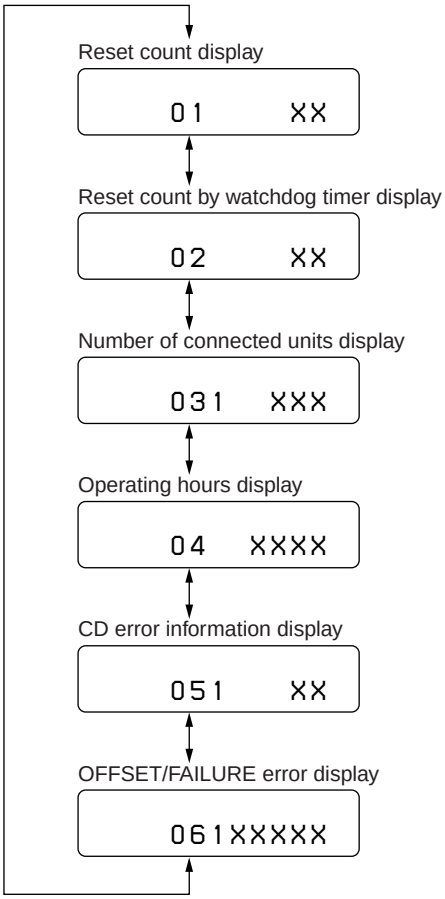
With the power off, press the [4/SHUF] button, [5] button, and [4/SHUF] button on the set body or the remote control (for more than 2 seconds) in turn.

2. Canceling the Diag display mode

During the Diag function mode, press the [OFF] button.

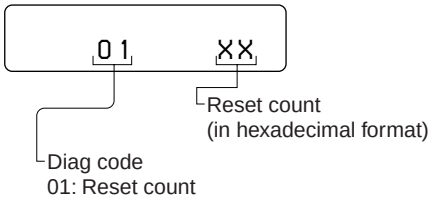
3. Initial display in the Diag display mode.

Just when the Diag mode is entered, "reset count" is displayed. The display mode is switched by each rotation of [▶▶ ▶▶I/SEEK +] or [I◀◀ ◀◀/SEEK –] keys.

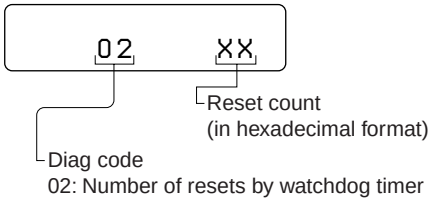


4. Contents of each display mode

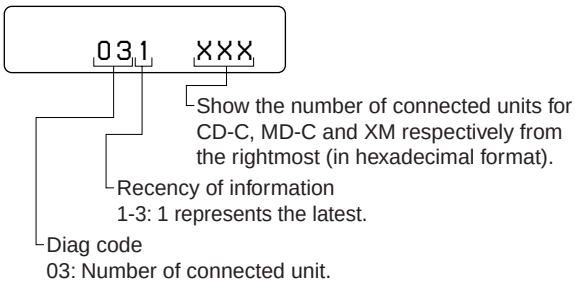
4-1. Reset count display mode



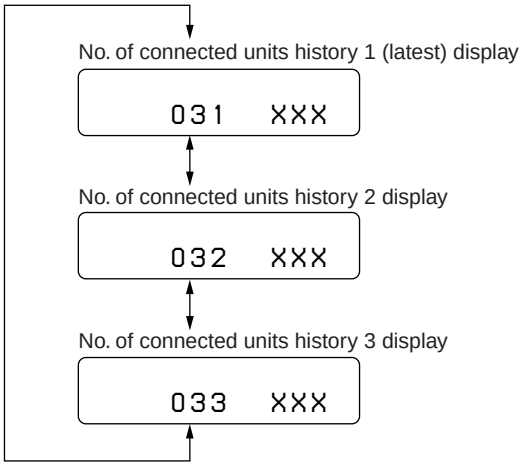
4-2. Reset count by watchdog timer display mode



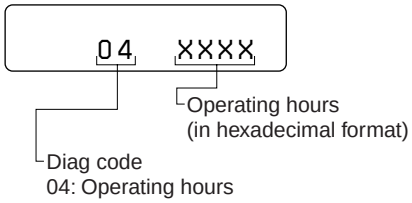
4-3. Number of connected units display mode


031 XXX
Show the number of connected units for CD-C, MD-C and XM respectively from the rightmost (in hexadecimal format).
Recency of information
1-3: 1 represents the latest.
Diag code
03: Number of connected unit.

The display mode is switched by each rotation of [2/ALBM +] or [1/ALBM –] keys during the number of connected units display mode.

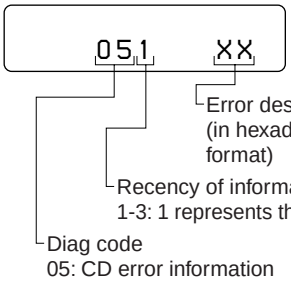

No. of connected units history 1 (latest) display
031 XXX
No. of connected units history 2 display
032 XXX
No. of connected units history 3 display
033 XXX

4-4. Operating hours display mode



4-5. CD error information display mode

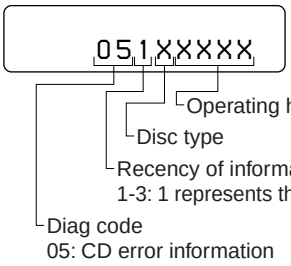
4-5-1. Error description



Error information

Indication	Description
1X	SERVO ERROR
3X	LOADING ERROR
4X	TRACK JUMP
5X	TEXT ERROR
FX	MECHA ERROR

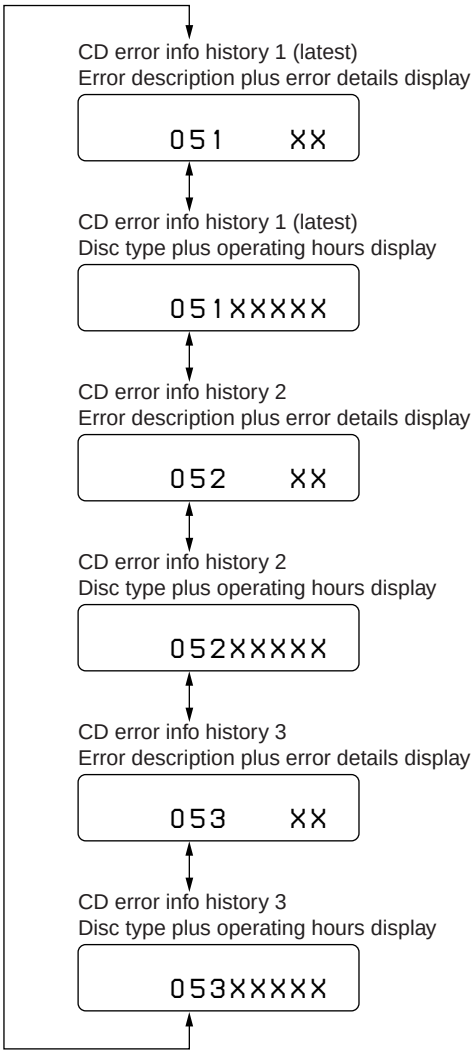
4-5-2. Disc type and operating hours



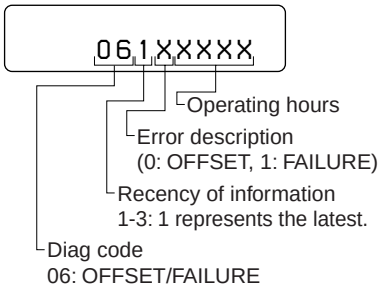
Disc type

Indication	Disc type
0	MP3
1	WMA
2	AAC
3	ATRAC
8	CD/DA
F	UNKNOWN

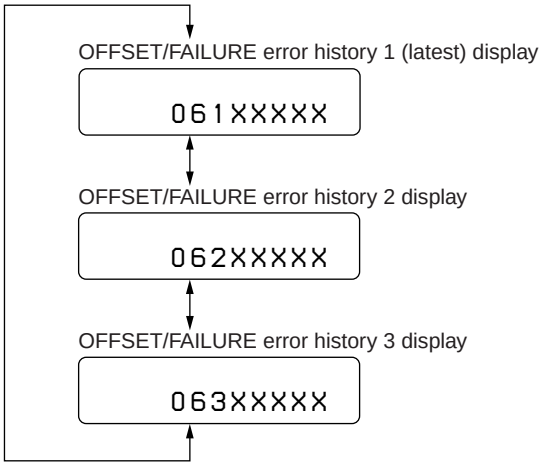
The display mode is switched by each rotation of 2/ALBM + or 1/ALBM – keys during the CD error information display mode.


CD error info history 1 (latest)
Error description plus error details display
051 XX
CD error info history 1 (latest)
Disc type plus operating hours display
051XXXXX
CD error info history 2
Error description plus error details display
052 XX
CD error info history 2
Disc type plus operating hours display
052XXXXX
CD error info history 3
Error description plus error details display
053 XX
CD error info history 3
Disc type plus operating hours display
053XXXXX

4-6. OFFSET/FAILURE error display mode



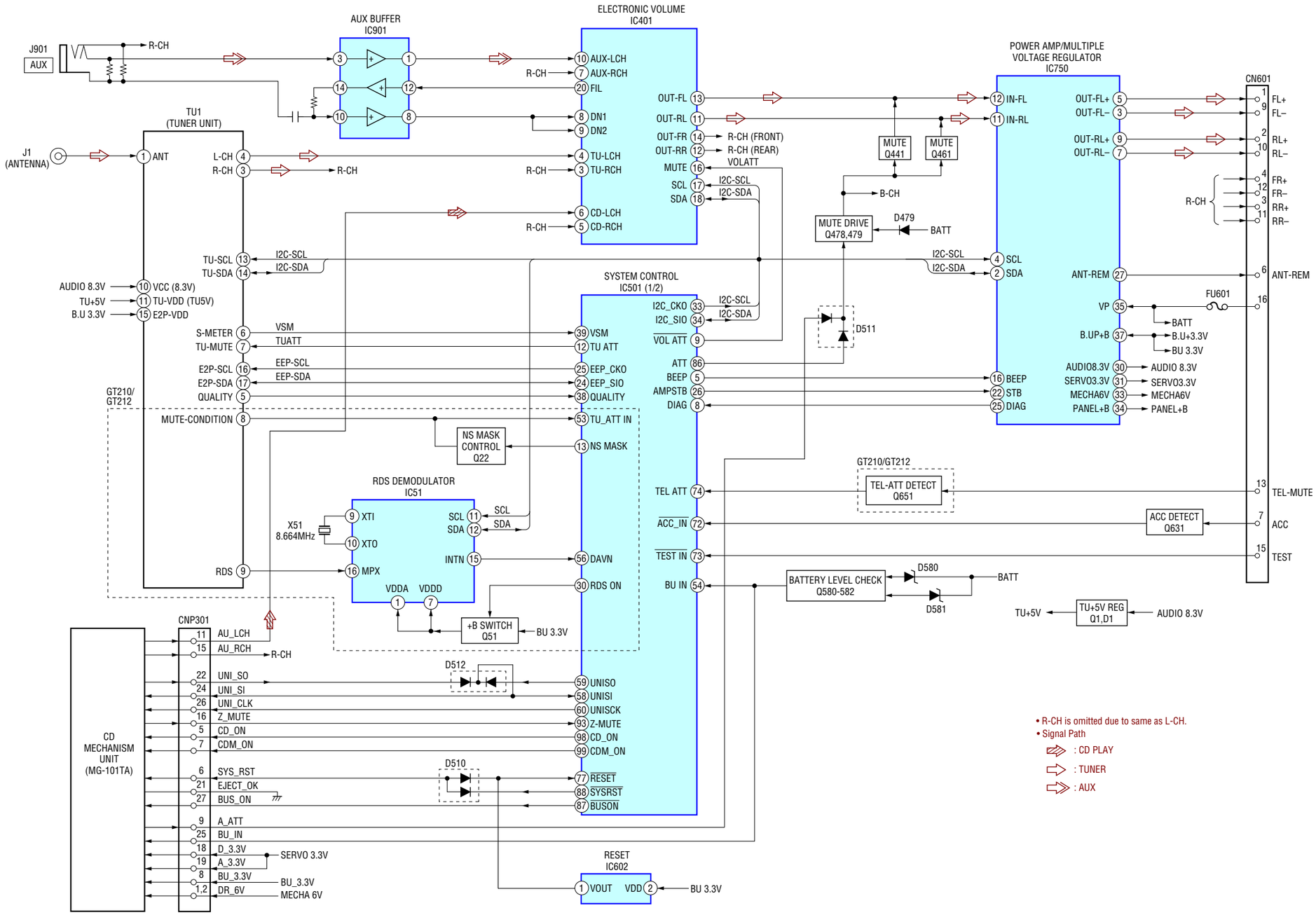
The display mode is switched by each rotation of 2/ALBM + or 1/ALBM – keys during the OFFSET/FAILURE error display mode.



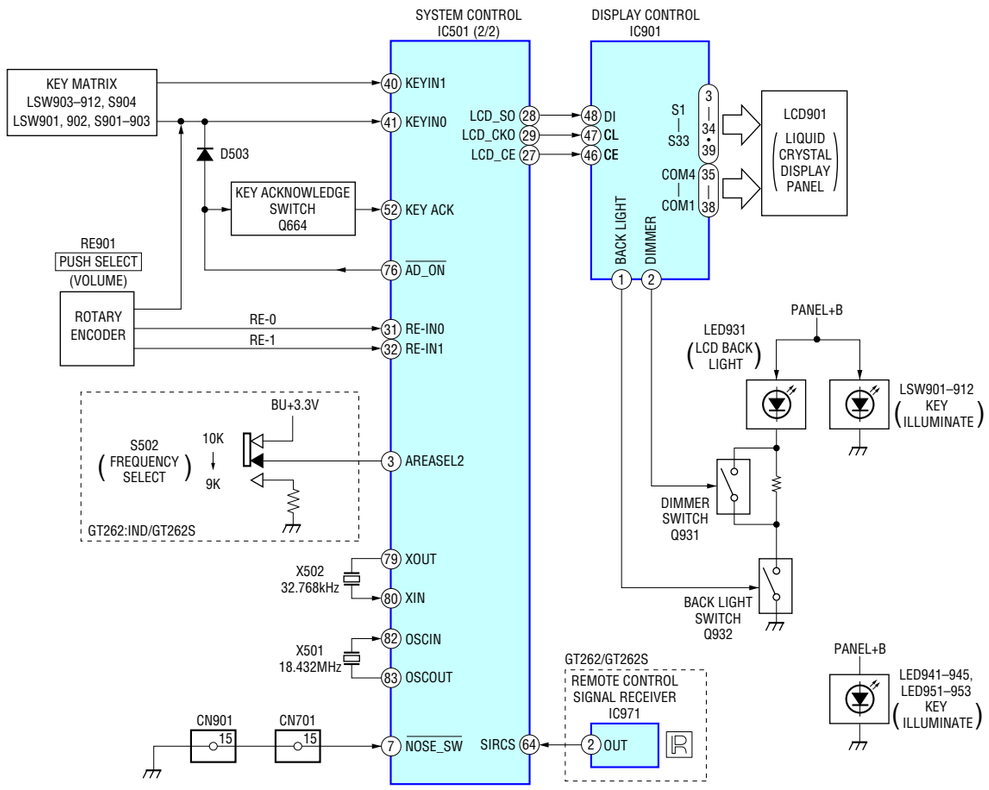
MEMO

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM — MAIN SECTION —



4-2. BLOCK DIAGRAM — DISPLAY SECTION —



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)**

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line.
- ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  < > : CD PLAY
  ✻ : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY
  ⇨ : TUNER
  ⇨ : AUX
- Abbreviation
  EA : Saudi Arabia model.
  IND : Indian model.
  RU : Russia model.

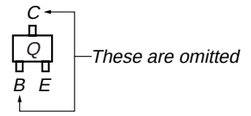
For printed wiring boards.

Note:

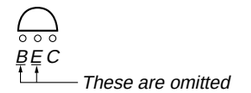
- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

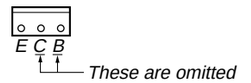
Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.



These are omitted



These are omitted



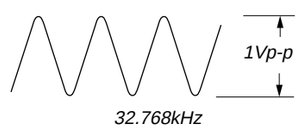
These are omitted

- Abbreviation
  EA : Saudi Arabia model.
  IND : Indian model.
  RU : Russia model.

• Waveforms

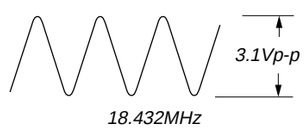
— MAIN Board —

① IC501 ⑲ (XOUT)



0.5 V/DIV, 20 µsec/DIV

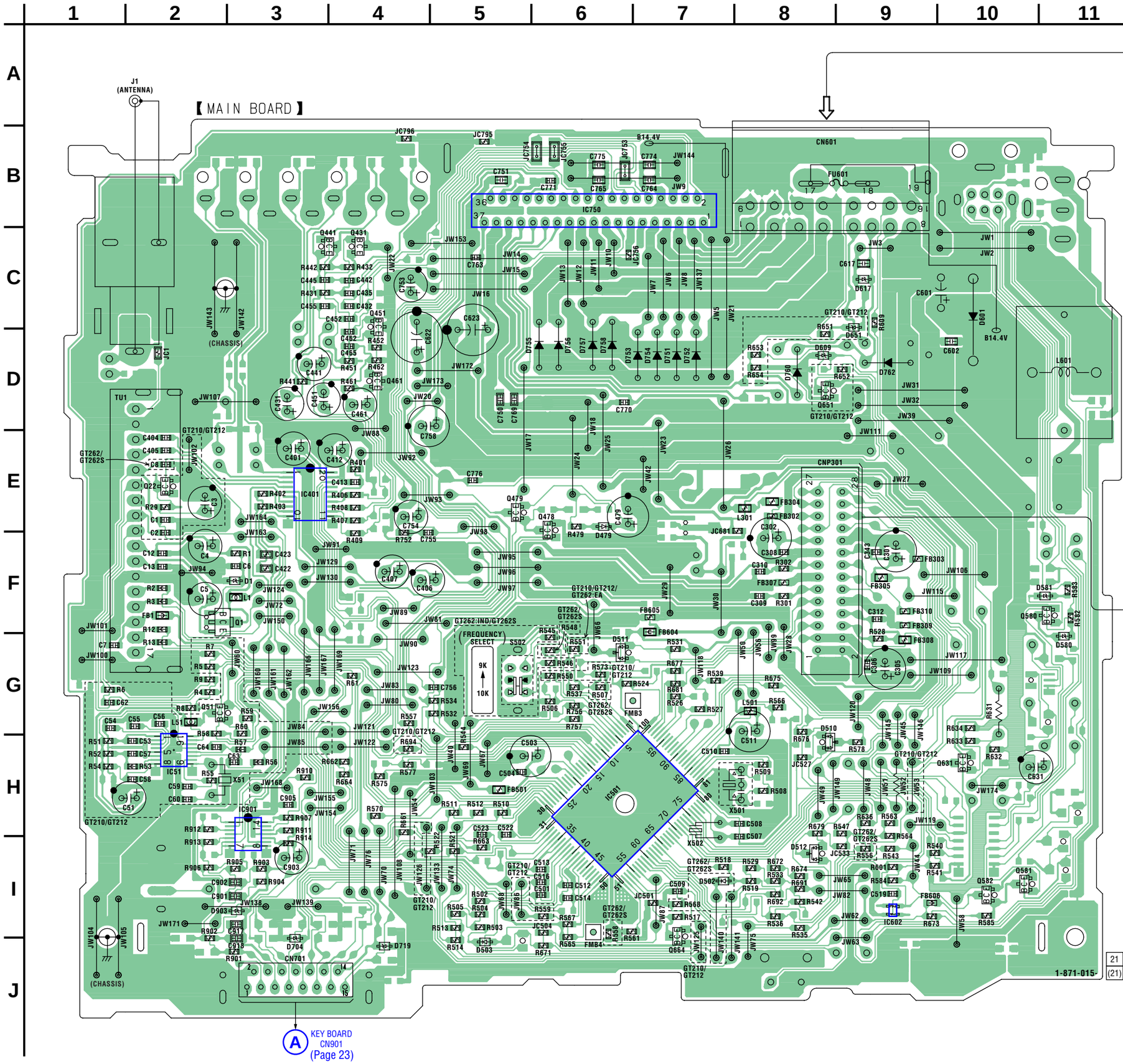
② IC501 ㉓ (OSCOUT)



1 V/DIV, 20 nsec/DIV

4-3. PRINTED WIRING BOARD — MAIN SECTION —

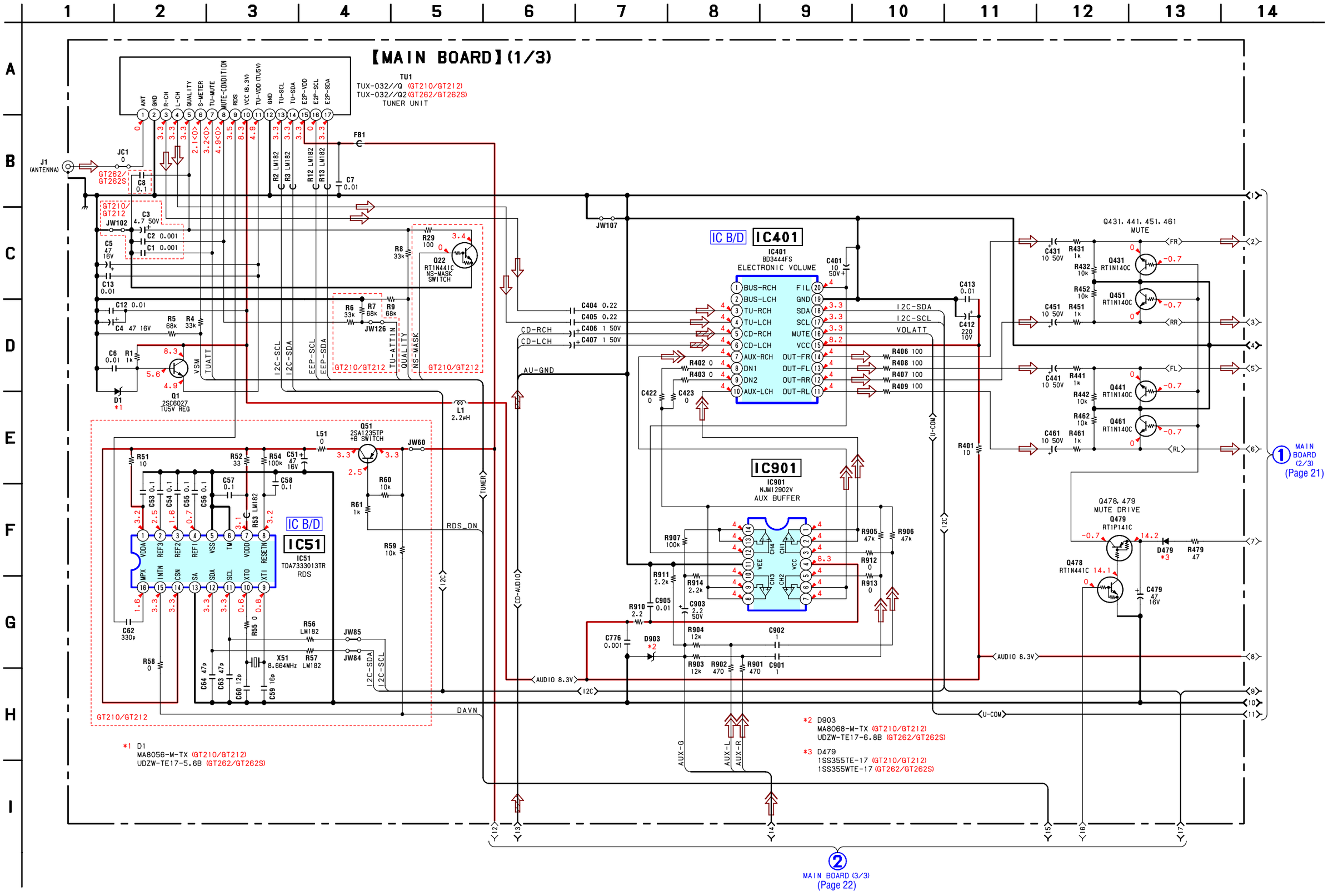
: Uses unleaded solder.



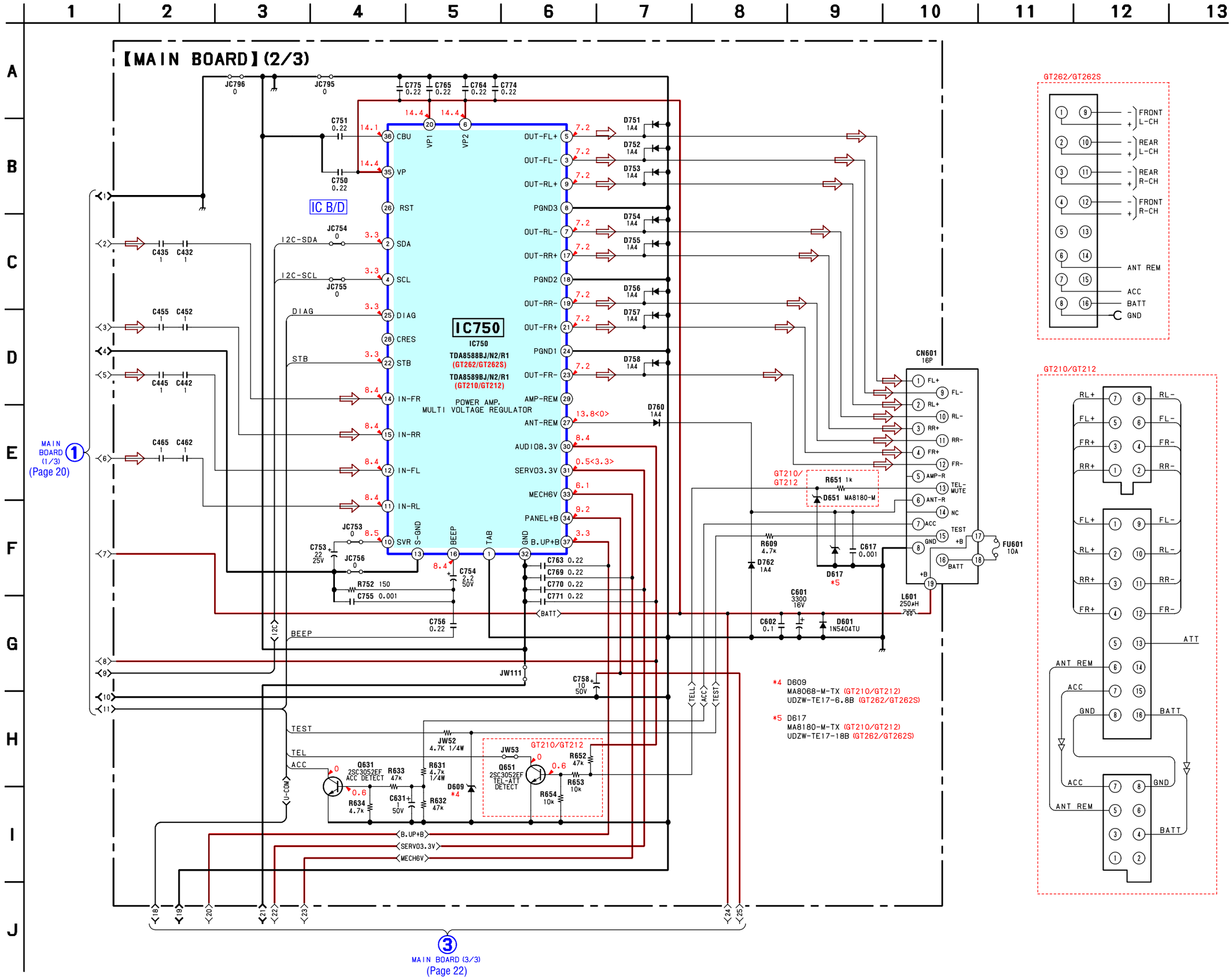
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1	F-3	D903	I-2
D479	F-6		
D502	I-7	IC51	H-2
D503	J-5	IC401	E-3
D510	H-8	IC501	H-6
D511	G-6	IC602	I-9
D512	I-8	IC750	B-6
D580	G-11	IC901	H-3
D581	F-11		
D601	C-10	Q1	F-3
D609	D-8	Q22	E-2
D617	C-9	Q51	G-2
D651	D-9	Q431	C-4
D704	J-3	Q441	C-3
D719	J-4	Q451	C-4
D751	D-7	Q461	D-4
D752	D-7	Q478	E-6
D753	D-6	Q479	E-5
D754	D-7	Q580	F-10
D755	D-6	Q581	I-10
D756	D-6	Q582	I-10
D757	D-6	Q631	H-10
D758	D-6	Q651	D-8
D760	D-8	Q664	J-7
D762	D-9		

4-4. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 25 for IC Block Diagram.

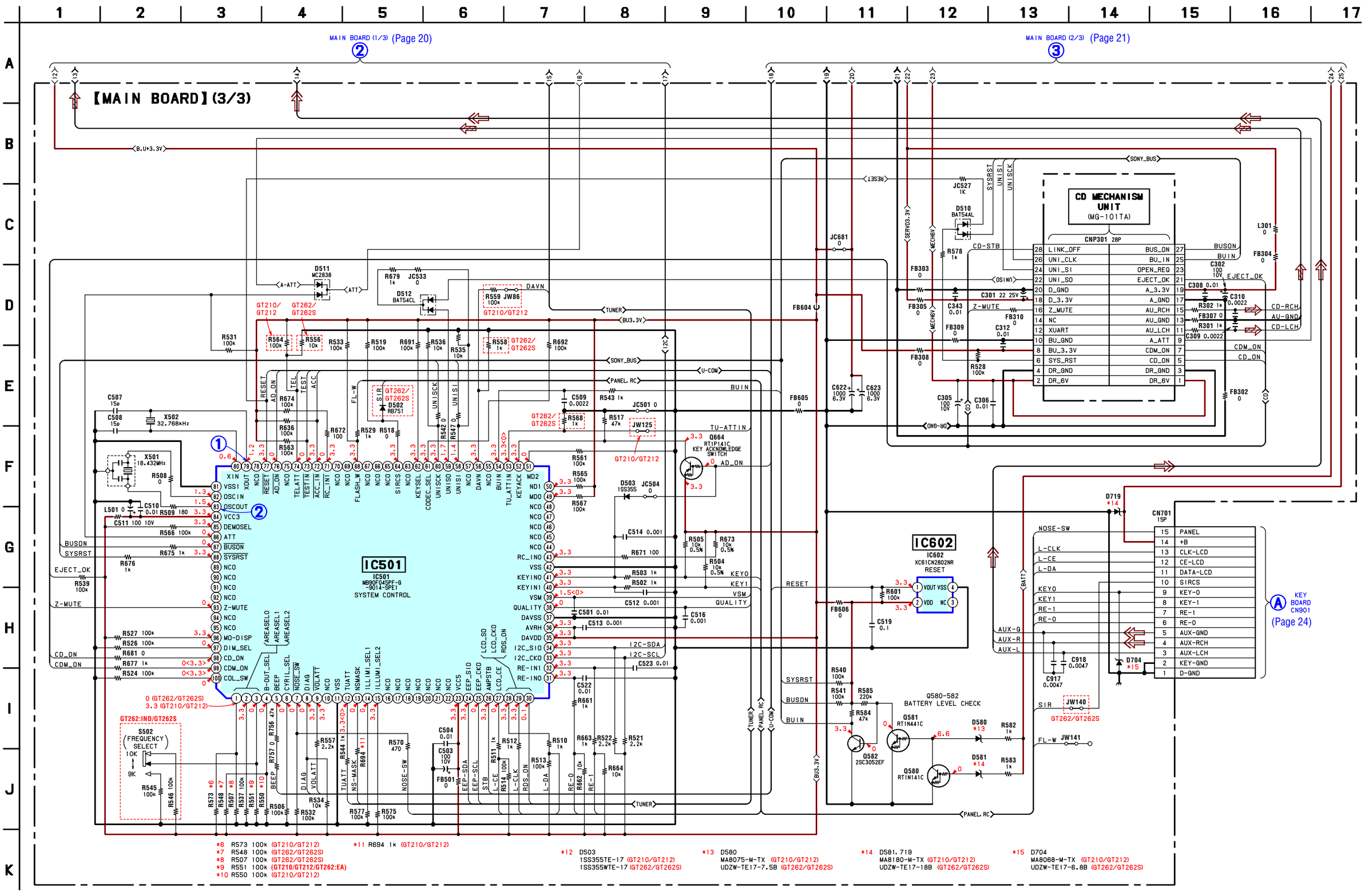


4-5. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 26 for IC Block Diagram.



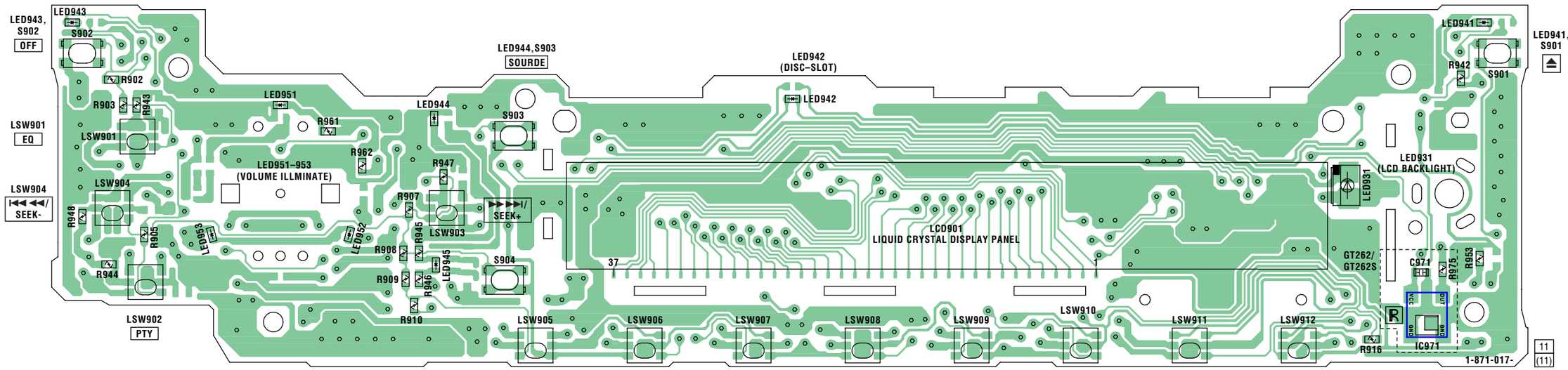
4-6. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —

- Refer to page 18 for Waveforms.
- Refer to page 27 for IC Pin Descriptions.



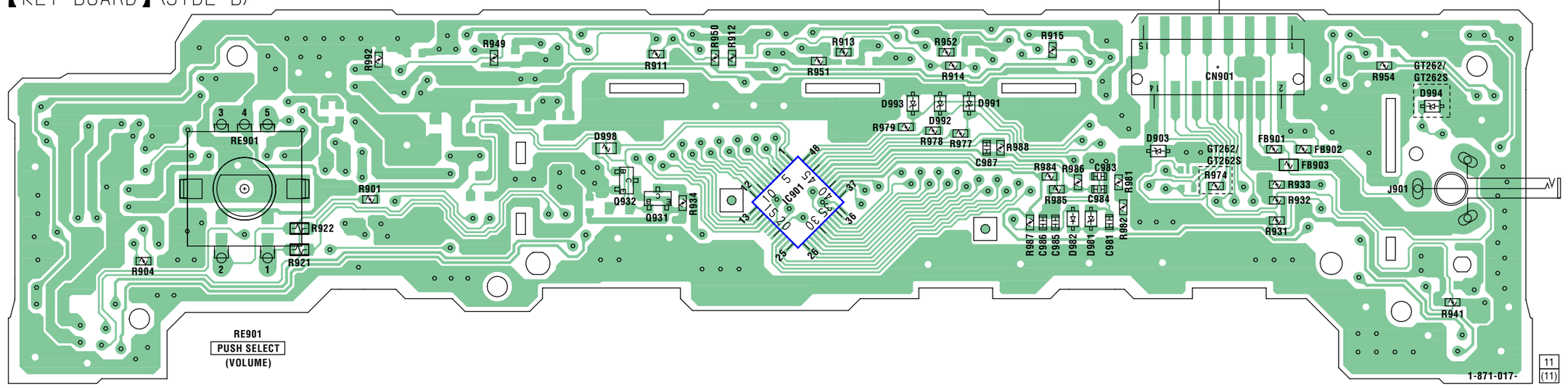
4-7. PRINTED WIRING BOARD — KEY SECTION — : Uses unleaded solder.

【KEY BOARD】(SIDE A)



(Page 19)
MAIN BOARD
CN701
A

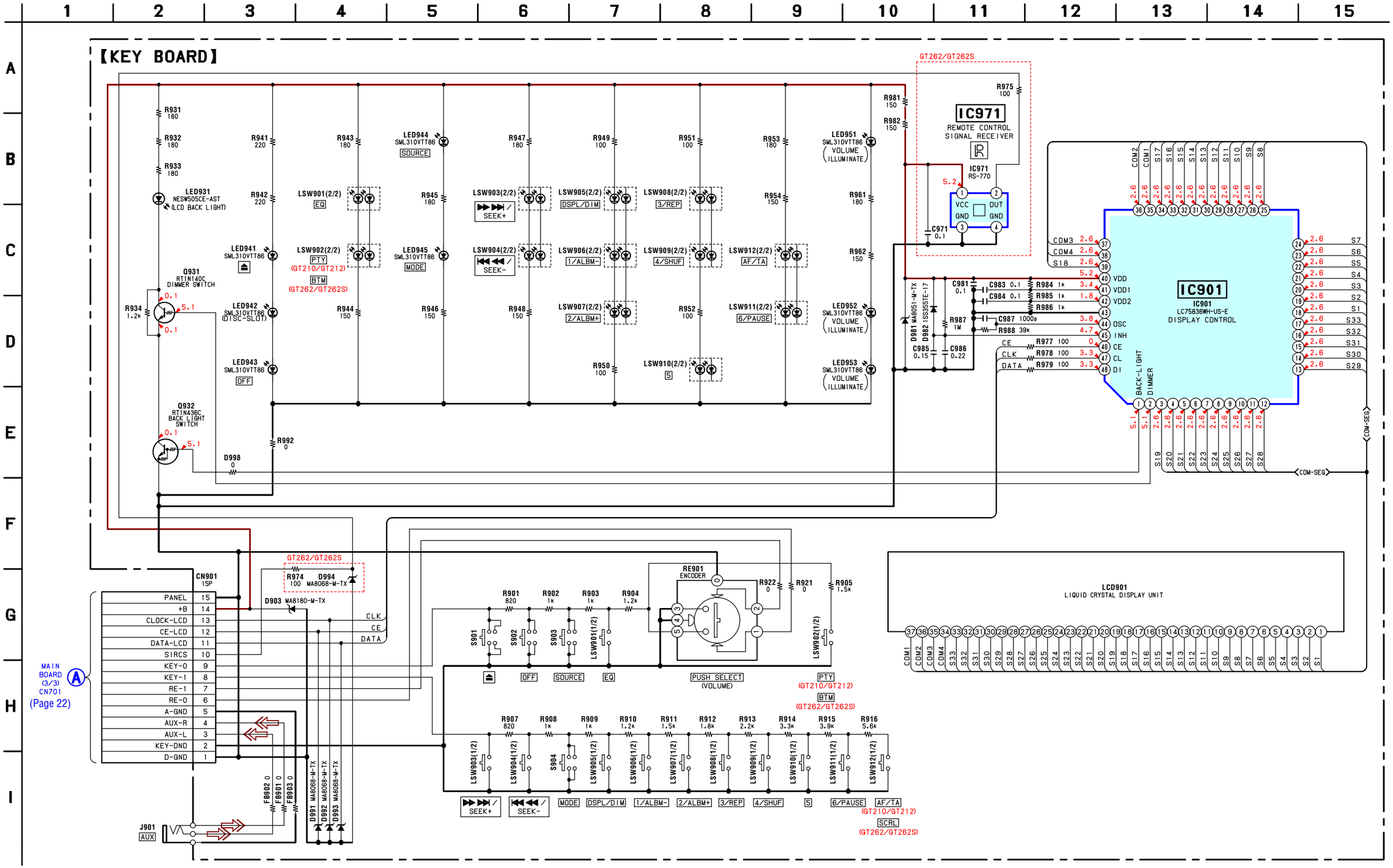
【KEY BOARD】(SIDE B)



- **Semiconductor Location**

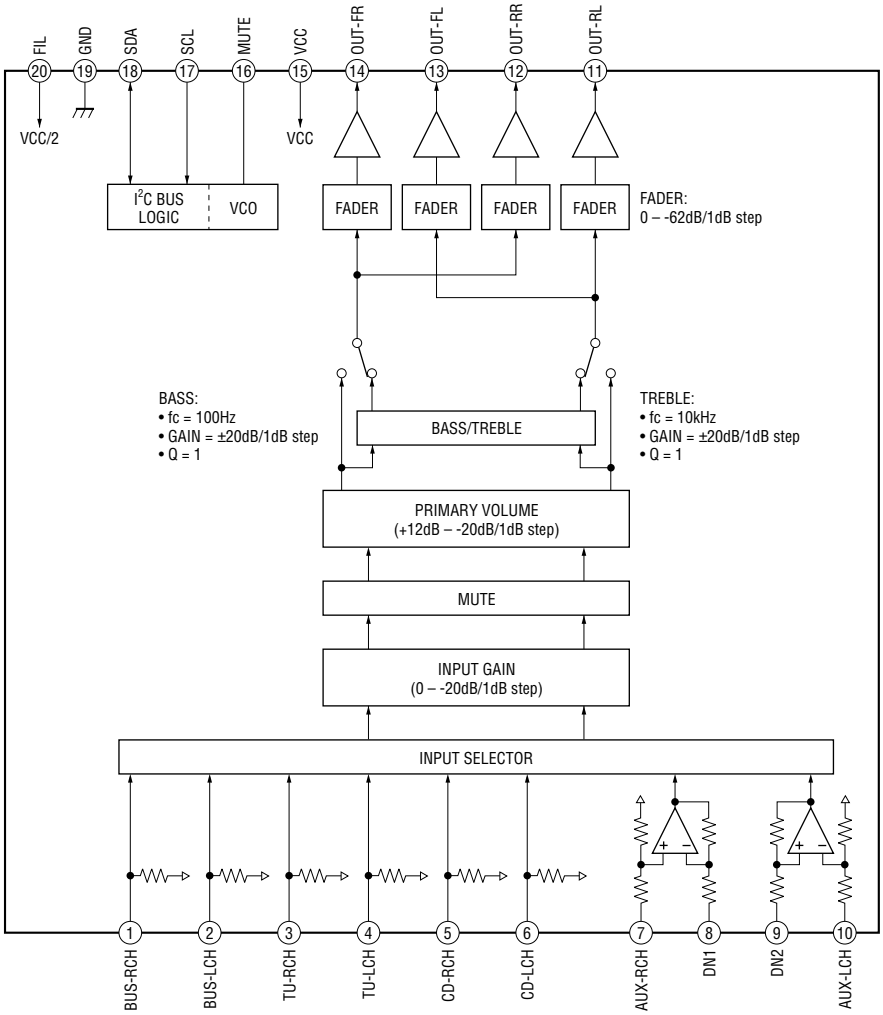
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D903	G-11	IC901	G-8	LED945	D-5
D981	H-10	IC971	D-13	LED951	B-3
D982	H-10			LED952	C-4
D991	G-9	LED931	C-13	LED953	C-3
D992	G-9	LED941	A-14		
D993	G-9	LED942	B-8	Q931	H-7
D994	G-13	LED943	A-1	Q932	H-6
D998	G-6	LED944	B-5		

4-8. SCHEMATIC DIAGRAM — KEY SECTION —

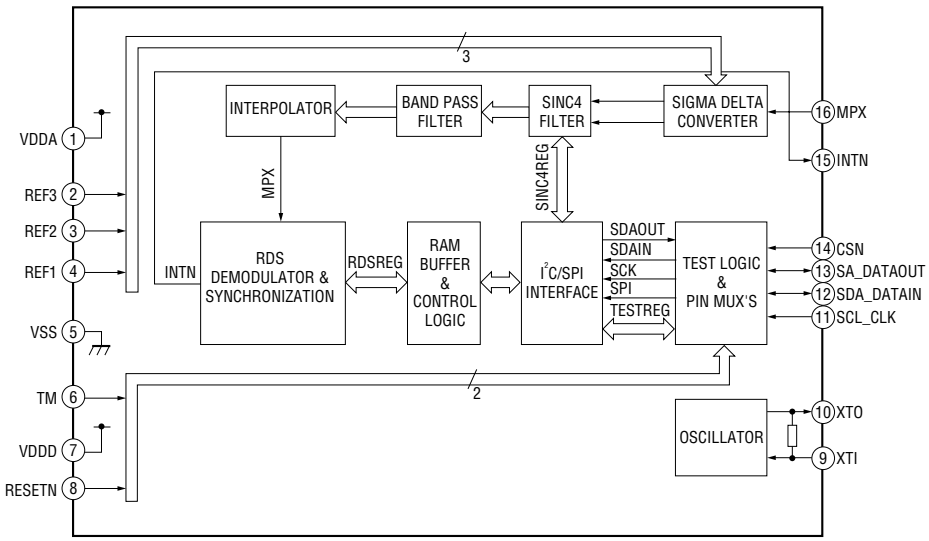


• IC BLOCK DIAGRAMS

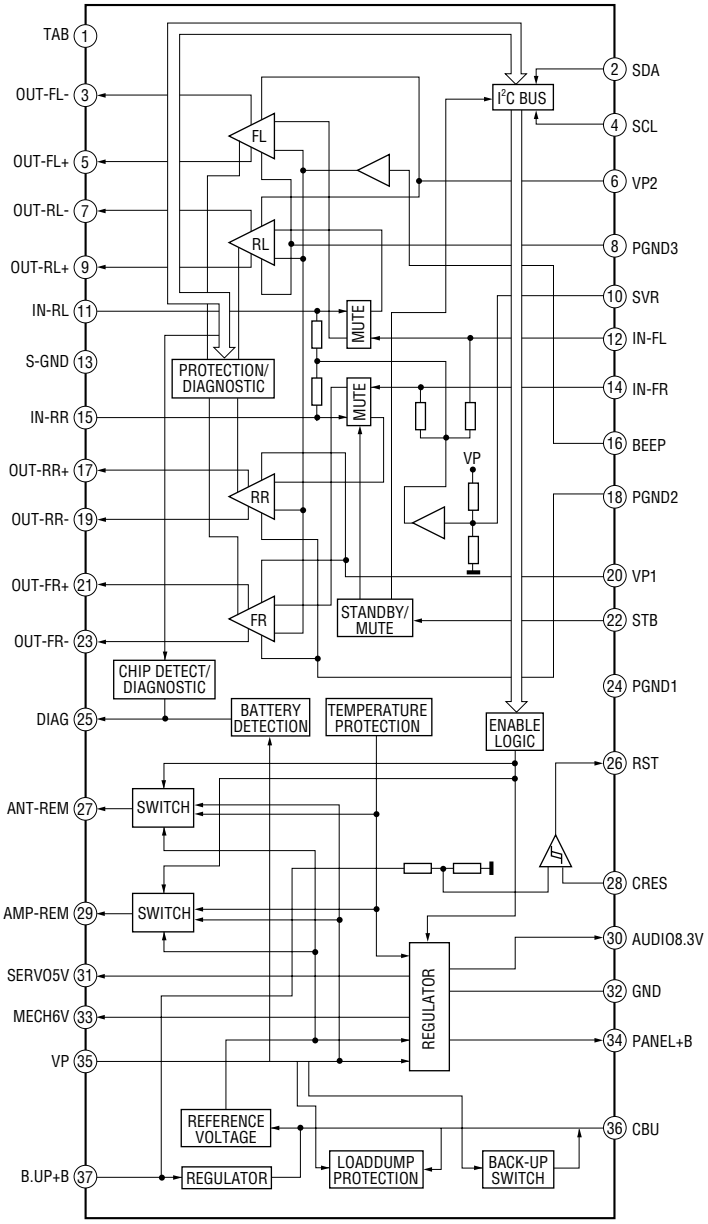
IC401 BD3444FS-E2 (MAIN Board (1/3))



IC51 TDA7333013TR (MAIN Board (1/3))



IC750 TDA8588BJ/N2/R1 (GT262/GT262S) (MAIN Board (2/3))
IC750 TDA8589BJ/N2/R1 (GT210/GT212) (MAIN Board (2/3))



• IC PIN DESCRIPTIONS

• IC501 MB90F045PF-G-9014-SPE1 (SYSTEM CONTROL) (MAIN BOARD (3/3))

Pin No.	Pin Name	I/O	Pin Description
1	AREASEL0	I	Destination setting pin
2	AREASEL1	I	Destination setting pin
3	AREASEL2	I	Frequency select signal input
4	B-OUT SEL	I	Blackout existence distinction signal input (L: blackout none, H: blackout)
5	BEEP	O	BEEP signal output
6	CYRIL_SEL	I	Distinction pin for Cyril word. (L: not for the Kiril word, H: for the Kiril word)
7	$\overline{\text{NOSE\_SW}}$	I	Front panel detaching detection signal input (L: Panel on, H: Panel off)
8	DIAG	I	Status signal input from power amplifier.
9	$\overline{\text{VOLATT}}$	O	Electronic volume attenuate control signal output.
10	NCO	O	Not used. (Open)
11	VSS	—	Ground
12	TUATT	O	Tuner mute control signal output
13	NSMASK	O	Noise mask signal output
14	ILLUMI_SEL1	I	Illumination voltage setting pin
15	ILLUMI_SEL2	I	Illumination voltage setting pin
16, 17	NCO	O	Not used. (Open)
18 to 20	NCO	O	Not used. (Open)
21, 22	NCO	O	Not used. (Open)
23	VCC5	—	Power supply (+3.3V)
24	EEP_SIO	I/O	EEPROM bus serial data input/output
25	EEP_CKO	O	EEPROM bus serial clock output
26	AMPSTB	O	Power AMP standby signal output
27	LCD_CE	O	LCD driver chip enable signal output
28	LCD_SO	O	LCD driver serial data signal output
29	LCD_SCK	O	LCD driver serial clock signal output
30	RDS ON	O	RDS ON signal output
31	RE-IN0	I	Rotary encoder signal input 0
32	RE-IN1	I	Rotary encoder signal input 1
33	I2C_CKO	O	I2C bus serial clock signal output
34	I2C_SIO	I/O	I2C bus serial data signal input/output
35	DAVDD	—	A/D converter power supply (+3.3V)
36	AVRH	—	A/D converter external reference power supply (+3.3V)
37	DAVSS	—	A/D converter Ground
38	QUALITY	I	Noise detect signal input
39	VSM	I	S-meter voltage detect signal input
40	KEYIN1	I	Key signal input 1
41	KEYIN0	I	Key signal input 0
42	VSS	—	Ground
43	RC_IN0	I	Rotary commander key signal input Not used in this set. (Pull up)
44 to 48	NCO	O	Not used. (Open)
49	MD0	I	Operation mode setting pin (Pull up)
50	MD1	I	Operation mode setting pin (Pull up)
51	MD2	I	Operation mode setting pin (Pull down)
52	KEYACK	I	Key acknowledgment detect signal input
53	TU_ATTIN	I	Tuner mute zero cross detect signal input
54	BUIN	I	Back-up power supply detect signal input
55	NCO	O	Not used. (Open)
56	DAVN	I	RDS data block synchronized detect signal input

Pin No.	Pin Name	I/O	Pin Description
57	NCO	O	Not used. (Open)
58	UNISI	I	S-BUS data signal input
59	UNISO	O	S-BUS data signal output
60	UNISCK	O	S-BUS clock signal output
61	CODEC_SEL	I	Codec select signal input (H: MP3, L: non-MP3)
62	KEYSEL	I	6key/8key distinction signal input (H: 8key, L: 6key)
63	NCO	O	Not used. (Open)
64	SIRCS	I	Remote control signal input
65 to 67	NCO	O	Not used. (Open)
68	FLASH_W	I	Memory mode select signal input Not used in this set. (Pull up)
69, 70	NCO	O	Not used. (Open)
71	$\overline{\text{RC\_IN1}}$	I	Rotary commander shift key signal input Not used in this set. (Pull up)
72	$\overline{\text{ACC\_IN}}$	I	Accessory power supply detect signal input
73	$\overline{\text{TESTIN}}$	I	Test mode detect signal input
74	TELATT	I	Telephone attenuate detect signal input
75	NCO	O	Not used. (Open)
76	$\overline{\text{AD\_ON}}$	O	A/D converter power supply control signal output
77	$\overline{\text{RESET}}$	I	System reset signal input
78	NCO	O	Not used. (Open)
79	XOUT	O	Sub clock signal output (32.768kHz)
80	XIN	I	Sub clock signal input (32.768kHz)
81	VSS1	—	Ground
82	OSCIN	I	Main clock signal input (18.432kHz)
83	OSCOUT	O	Main clock signal output (18.432kHz)
84	VCC3	—	Power supply (+3.3 V)
85	DEMOSEL	I	DEMO select signal input (H: DEMO on, L: DEMO off)
86	ATT	O	Audio mute control signal output
87	$\overline{\text{BUSON}}$	O	BUS ON signal output
88	$\overline{\text{SYSRST}}$	O	System reset signal output
89	NCO	O	Not used. (Open)
90, 91	NCO	O	Not used. (Open)
92	NCO	O	Not used. (Open)
93	Z-MUTE	I	CD zero cross mute detect signal input
94, 95	NCO	O	Not used. (Open)
96	MO-DISP	I	Motion display select signal input (H: Motion display on, L: Motion display off)
97	DIM_SEL	I	Dimmer select signal input Not used in this set. (Pull down)
98	CD_ON	I	CD mechanism servo power control request signal input
99	CDM_ON	I	CD mechanism deck power control request signal input
100	COL_SW	I	Illumination color select signal input Not used in this set. (Pull down)

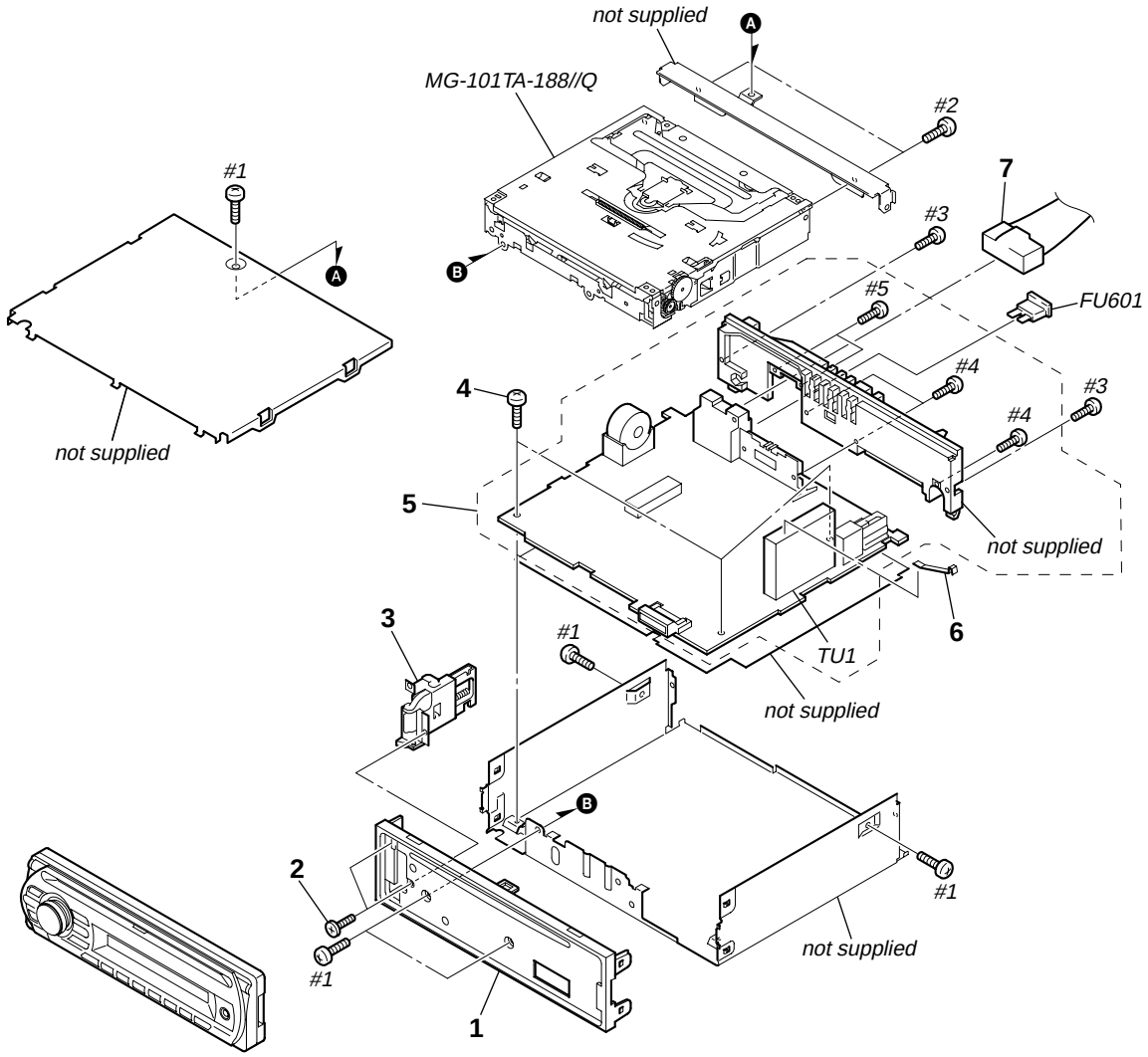
SECTION 5
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
  EA : Saudi Arabia model
  IND : Indian model
  RU : Russia model

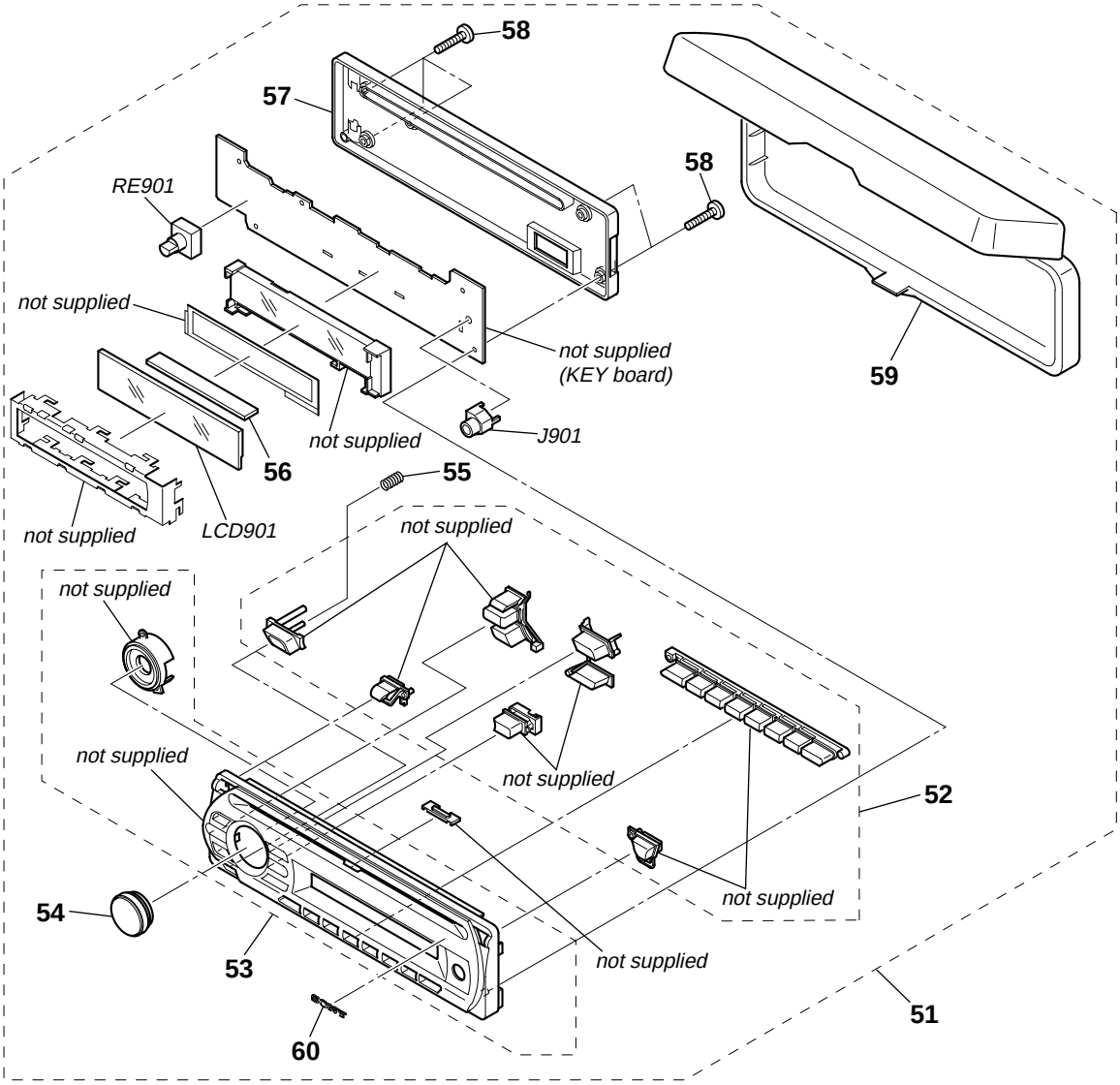
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

5-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-2149-122-2	PANEL (LCD) ASSY, SUB	
2	3-042-244-11	SCREW (T)	
3	X-2108-670-1	LOCK ASSY (S)	
4	2-050-124-01	SCREW +BTT 2.6X5	
5	A-1204-657-A	MAIN BOARD, COMPLETE (GT210:AEP,UK/GT212:AEP,UK)	
5	A-1204-930-A	MAIN BOARD, COMPLETE (GT262:IND/GT262S)	
5	A-1205-059-A	MAIN BOARD, COMPLETE (GT262:EA)	
5	A-1221-694-A	MAIN BOARD, COMPLETE (GT210:RU/GT212:RU)	
6	2-021-848-01	SHEET (TU), GROUND	
7	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER) (GT210/GT212)	
7	1-833-655-11	CORD (WITH CONNECTOR) (POWER) (GT262:EA/GT262S)	
7	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki) (GT262:IND)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU1	A-3220-960-B	TUNER UNIT (TUX-032) (GT262/GT262S)	
TU1	A-3220-961-B	TUNER UNIT (TUX-032) (GT210/GT212)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	

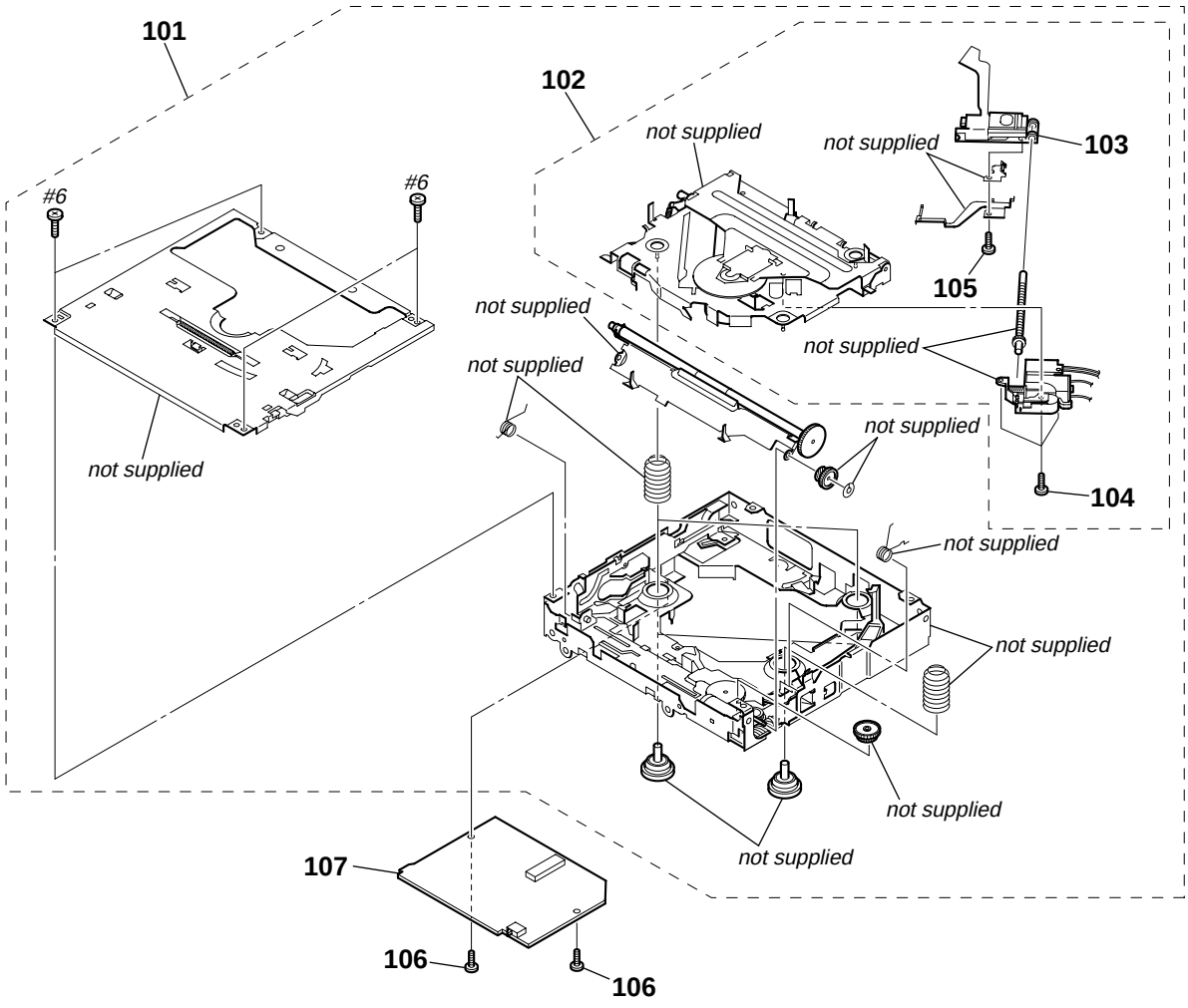
5-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	A-1204-661-A	PANEL COMPLETE ASSY, FRONT (GT212:AEP,UK)	
51	A-1204-664-A	PANEL COMPLETE ASSY, FRONT (GT210:AEP,UK)	
51	A-1204-932-A	PANEL COMPLETE ASSY, FRONT (GT262S)	
51	A-1205-062-A	PANEL COMPLETE ASSY, FRONT (GT262)	
51	A-1225-151-A	PANEL COMPLETE ASSY, FRONT (GT212:RU)	
51	A-1225-153-A	PANEL COMPLETE ASSY, FRONT (GT210:RU)	
52	X-2048-892-3	BUTTON ASSY (S) (GT262S)	
52	X-2103-265-3	BUTTON ASSY (S) (GT210)	
52	X-2103-266-3	BUTTON ASSY (S) (GT262)	
52	X-2149-102-3	BUTTON ASSY (S) (GT212)	
53	X-2103-004-2	PANEL SUB ASSY, FRONT (GT262S)	
53	X-2103-007-1	PANEL SUB ASSY, FRONT (GT262)	
53	X-2148-915-2	PANEL SUB ASSY, FRONT (GT212)	
53	X-2148-916-2	PANEL SUB ASSY, FRONT (GT210)	
54	X-2149-185-1	KNOB (SV) ASSY	
55	2-693-599-01	SPRING (RELEASE)	
56	1-780-433-11	CONDUCTIVE BOARD, CONNECTION	
57	2-683-964-01	PANEL (LCD), BACK	
58	3-250-543-21	SCREW (+B P-TITE M2)	
59	X-2149-228-2	CASE ASSY (for FRONT PANEL)	
60	3-251-320-01	EMBLEM (NO.2.5), SONY	
J901	1-820-624-11	JACK (SMALL TYPE) (VERTICAL) (AUX)	
LCD901	1-802-231-11	DISPLAY PANEL, LIQUID CRYSTAL	
RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT (VOLUME))	

5-3. CD MECHANISM SECTION (MG-101TA-188//Q)

NOTE: Refer to SUPPLEMENT-1 for disassembly of OPTICAL PICK-UP.



Ref. No.	Part No.	Description	Remark
101	A-1177-168-A	MECHANICAL BLOCK ASSY	
102	A-1177-169-A	DAXEV//Q	
⚠103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
104	2-626-869-01	SCREW (M2X3), SERRATION	
105	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
107	A-1177-201-A	SERVO BOARD, COMPLETE	
#6	7-627-000-08	SCREW, PRECISION +P 1.7X2.2 TYPE3	

KEY

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation
  EA : Saudi Arabia model
  IND : Indian model
  RU : Russia model

Ref. No.	Part No.	Description			Remark
		KEY BOARD			
		**********			
	1-780-433-11	CONDUCTIVE BOARD, CONNECTION			
		< CAPACITOR >			
C971	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (GT262/GT262S)
C981	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C983	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C984	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C985	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C986	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C987	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN901	1-819-758-12	PLUG, CONNECTOR 15P			
		< DIODE >			
D903	8-719-057-80	DIODE MA8180-M-TX			
D981	8-719-420-90	DIODE MA8051-M			
D982	8-719-988-61	DIODE 1SS355TE-17			
D991	8-719-977-12	DIODE DTZ6.8B			
D992	8-719-977-12	DIODE DTZ6.8B			
D993	8-719-977-12	DIODE DTZ6.8B			
D994	8-719-977-12	DIODE DTZ6.8B (GT262/GT262S)			
D998	1-216-295-11	SHORT CHIP	0		
		< JUMPER RESISTOR >			
FB901	1-216-864-11	SHORT CHIP	0		
FB902	1-216-864-11	SHORT CHIP	0		
FB903	1-216-295-11	SHORT CHIP	0		
		< IC >			
IC901	6-710-047-01	IC LC75836WH-US-E			
IC971	6-600-163-01	IC RS-770 (IR) (GT262/GT262S)			
		< LIQUID CRYSTAL DISPLAY >			
LCD901	1-802-231-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< DIODE >			
LED931	6-501-339-01	LED NESW505CT-AST (LCD BACK LIGHT)			
LED941	8-719-053-09	LED SML-310VTT86 (⏏)			
LED942	8-719-053-09	LED SML-310VTT86 (DISC-SLOT)			
LED943	8-719-053-09	LED SML-310VTT86 (OFF)			
LED944	8-719-053-09	LED SML-310VTT86 (SOURCE)			
LED945	8-719-053-09	LED SML-310VTT86 (MODE)			
LED951	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)			
LED952	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)			
LED953	8-719-053-09	LED SML-310VTT86 (VOLUME ILLUMINATE)			
		< SWITCH >			
LSW901	1-786-805-12	SWITCH, TACTILE (WITH LED) (EQ)			
LSW902	1-786-805-12	SWITCH, TACTILE (WITH LED) (PTY)			(GT210/GT212)
LSW902	1-786-805-12	SWITCH, TACTILE (WITH LED) (BTM)			(GT262/GT262S)
LSW903	1-786-805-12	SWITCH, TACTILE (WITH LED)			(▶▶ ▶▶I/SEEK+)
LSW904	1-786-805-12	SWITCH, TACTILE (WITH LED)			(I◀◀ ◀◀/SEEK–)
LSW905	1-786-805-12	SWITCH, TACTILE (WITH LED) (DSPL/DIM)			
LSW906	1-786-805-12	SWITCH, TACTILE (WITH LED) (1/ALBM –)			
LSW907	1-786-805-12	SWITCH, TACTILE (WITH LED) (2/ALBM +)			
LSW908	1-786-805-12	SWITCH, TACTILE (WITH LED) (3/REP)			
LSW909	1-786-805-12	SWITCH, TACTILE (WITH LED) (4/SHUF)			
LSW910	1-786-805-12	SWITCH, TACTILE (WITH LED) (5)			
LSW911	1-786-805-12	SWITCH, TACTILE (WITH LED) (6/PAUSE)			
LSW912	1-786-805-12	SWITCH, TACTILE (WITH LED) (AF/TA)			(GT210/GT212)
LSW912	1-786-805-12	SWITCH, TACTILE (WITH LED) (SCRL)			(GT262/GT262S)
		< TRANSISTOR >			
Q931	8-729-027-44	TRANSISTOR DTC114TKA-T146			
Q932	6-551-444-01	TRANSISTOR RT1N436C-TP-1			
		< RESISTOR >			
R901	1-216-820-11	METAL CHIP	820	5%	1/10W
R902	1-216-821-11	METAL CHIP	1K	5%	1/10W
R903	1-216-821-11	METAL CHIP	1K	5%	1/10W
R904	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R905	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R907	1-216-820-11	METAL CHIP	820	5%	1/10W
R908	1-216-821-11	METAL CHIP	1K	5%	1/10W
R909	1-216-821-11	METAL CHIP	1K	5%	1/10W
R910	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R911	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R912	1-216-824-11	METAL CHIP	1.8K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R913	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R914	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R915	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R916	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R921	1-216-295-11	SHORT CHIP	0		
R922	1-216-295-11	SHORT CHIP	0		
R931	1-216-812-11	METAL CHIP	180	5%	1/10W
R932	1-216-812-11	METAL CHIP	180	5%	1/10W
R933	1-216-812-11	METAL CHIP	180	5%	1/10W
R934	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R941	1-216-813-11	METAL CHIP	220	5%	1/10W
R942	1-216-813-11	METAL CHIP	220	5%	1/10W
R943	1-216-812-11	METAL CHIP	180	5%	1/10W
R944	1-216-811-11	METAL CHIP	150	5%	1/10W
R945	1-216-812-11	METAL CHIP	180	5%	1/10W
R946	1-216-811-11	METAL CHIP	150	5%	1/10W
R947	1-216-812-11	METAL CHIP	180	5%	1/10W
R948	1-216-811-11	METAL CHIP	150	5%	1/10W
R949	1-216-809-11	METAL CHIP	100	5%	1/10W
R950	1-216-809-11	METAL CHIP	100	5%	1/10W
R951	1-216-809-11	METAL CHIP	100	5%	1/10W
R952	1-216-809-11	METAL CHIP	100	5%	1/10W
R953	1-216-812-11	METAL CHIP	180	5%	1/10W
R954	1-216-811-11	METAL CHIP	150	5%	1/10W
R961	1-216-812-11	METAL CHIP	180	5%	1/10W
R962	1-216-811-11	METAL CHIP	150	5%	1/10W
R974	1-216-809-11	METAL CHIP	100	5%	1/10W (GT262/GT262S)
R975	1-216-809-11	METAL CHIP	100	5%	1/10W (GT262/GT262S)
R977	1-216-809-11	METAL CHIP	100	5%	1/10W
R978	1-216-809-11	METAL CHIP	100	5%	1/10W
R979	1-216-809-11	METAL CHIP	100	5%	1/10W
R981	1-216-811-11	METAL CHIP	150	5%	1/10W
R982	1-216-811-11	METAL CHIP	150	5%	1/10W
R984	1-216-821-11	METAL CHIP	1K	5%	1/10W
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W
R987	1-216-857-11	METAL CHIP	1M	5%	1/10W
R988	1-216-840-11	METAL CHIP	39K	5%	1/10W
R992	1-216-864-11	SHORT CHIP	0		
		< ROTARY ENCODER >			
RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT (VOLUME))			
		< SWITCH >			
S901	1-786-653-11	SWITCH, TACTILE (⏏)			
S902	1-786-653-11	SWITCH, TACTILE (OFF)			
S903	1-786-653-11	SWITCH, TACTILE (SOURCE)			
S904	1-786-653-11	SWITCH, TACTILE (MODE)			

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Ref. No.	Part No.	Description			Remark
	A-1204-657-A	MAIN BOARD, COMPLETE (GT210:AEP,UK/GT212:AEP,UK)			
	A-1204-930-A	MAIN BOARD, COMPLETE (GT262:IND/GT262S)			
	A-1205-059-A	MAIN BOARD, COMPLETE (GT262:EA)			
	A-1221-694-A	MAIN BOARD, COMPLETE (GT210:RU/GT212:RU)			
		**********			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< CAPACITOR >			
C1	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	(GT210/GT212)
C2	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	(GT210/GT212)
C3	1-126-963-11	ELECT	4.7uF	20% 50V	(GT210/GT212)
C4	1-126-947-11	ELECT	47uF	20% 35V	
C5	1-126-947-11	ELECT	47uF	20% 35V	
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C7	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	(GT262/GT262S)
C12	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C13	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C51	1-126-947-11	ELECT	47uF	20% 35V	(GT210/GT212)
C53	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	(GT210/GT212)
C54	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	(GT210/GT212)
C55	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	(GT210/GT212)
C56	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	(GT210/GT212)
C57	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	(GT210/GT212)
C58	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	(GT210/GT212)
C59	1-164-237-11	CERAMIC CHIP	16PF	5% 50V	(GT210/GT212)
C60	1-162-916-11	CERAMIC CHIP	12PF	5% 50V	(GT210/GT212)
C62	1-162-959-11	CERAMIC CHIP	330PF	5% 50V	(GT210/GT212)
C63	1-162-923-11	CERAMIC CHIP	47PF	5% 50V	(GT210/GT212)
C64	1-162-923-11	CERAMIC CHIP	47PF	5% 50V	(GT210/GT212)
C301	1-124-248-00	ELECT	22uF	20% 25V	
C302	1-124-584-00	ELECT	100uF	20% 10V	
C305	1-124-584-00	ELECT	100uF	20% 10V	
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C308	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C309	1-162-966-11	CERAMIC CHIP	0.0022uF	10% 50V	
C310	1-162-966-11	CERAMIC CHIP	0.0022uF	10% 50V	
C312	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C343	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C401	1-126-964-11	ELECT	10uF	20% 50V	
C404	1-127-715-11	CERAMIC CHIP	0.22uF	10% 16V	
C405	1-127-715-11	CERAMIC CHIP	0.22uF	10% 16V	
C406	1-126-160-11	ELECT	1uF	20% 50V	
C407	1-126-160-11	ELECT	1uF	20% 50V	

MAIN

Ref. No.	Part No.	Description			Remark
C412	1-126-934-11	ELECT	220uF	20%	16V
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C422	1-216-864-11	SHORT CHIP	0		
C423	1-216-864-11	SHORT CHIP	0		
C431	1-126-964-11	ELECT	10uF	20%	50V
C432	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C435	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C441	1-126-964-11	ELECT	10uF	20%	50V
C442	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C445	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C451	1-126-964-11	ELECT	10uF	20%	50V
C452	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C455	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C461	1-126-964-11	ELECT	10uF	20%	50V
C462	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C465	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C479	1-124-589-11	ELECT	47uF	20%	16V
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-124-584-00	ELECT	100uF	20%	10V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C507	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C508	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C509	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C510	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C511	1-124-584-00	ELECT	100uF	20%	10V
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C514	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C516	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C522	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C523	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C601	1-131-868-81	ELECT	3300uF	20%	16V
C602	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C617	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C622	1-126-916-11	ELECT	1000uF	20%	6.3V
C623	1-126-916-11	ELECT	1000uF	20%	6.3V
C631	1-126-160-11	ELECT	1uF	20%	50V
C750	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C751	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C753	1-128-551-11	ELECT	22uF	20%	63V
C754	1-124-257-00	ELECT	2.2uF	20%	50V
C755	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C756	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C758	1-124-261-00	ELECT	10uF	20%	50V
C763	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C764	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C765	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C769	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C770	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C771	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C774	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C775	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C776	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C901	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C902	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C903	1-126-961-11	ELECT	2.2uF	20%	50V
C905	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C917	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C918	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
		< CONNECTOR >			
CN601	1-774-701-21	PIN, CONNECTOR 16P			
CN701	1-819-773-13	SOCKET, CONNECTOR 15P			
CNP301	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P			
		< DIODE >			
D1	6-501-168-01	DIODE	UDZW-TE17-5.6B (GT262/GT262S)		
D1	8-719-977-03	DIODE	DTZ5.6B (GT210/GT212)		
D479	6-501-193-01	DIODE	1SS355WTE-17 (GT262/GT262S)		
D479	8-719-988-61	DIODE	1SS355TE-17 (GT210/GT212)		
D502	8-719-060-48	DIODE	RB751V-40TE-17 (GT262/GT262S)		
D503	6-501-193-01	DIODE	1SS355WTE-17 (GT262/GT262S)		
D503	8-719-988-61	DIODE	1SS355TE-17 (GT210/GT212)		
D510	6-501-013-01	DIODE	BAT54ALT1G		
D511	6-500-335-01	DIODE	MC2838-T112-1		
D512	6-501-051-01	DIODE	BAT54CLT1G		
D580	6-501-171-01	DIODE	UDZW-TE17-7.5B (GT262/GT262S)		
D580	8-719-422-76	DIODE	MA8075-M (GT210/GT212)		
D581	6-501-180-01	DIODE	UDZW-TE17-18B (GT262/GT262S)		
D581	8-719-057-80	DIODE	MA8180-M-TX (GT210/GT212)		
D601	6-501-571-01	DIODE	1N5404-C311-3		
D609	6-501-170-01	DIODE	UDZW-TE17-6.8B (GT262/GT262S)		
D609	8-719-977-12	DIODE	DTZ6.8B (GT210/GT212)		
D617	6-501-180-01	DIODE	UDZW-TE17-18B (GT262/GT262S)		
D617	8-719-057-80	DIODE	MA8180-M-TX (GT210/GT212)		
D651	8-719-057-80	DIODE	MA8180-M-TX (GT210/GT212)		
D704	6-501-170-01	DIODE	UDZW-TE17-6.8B (GT262/GT262S)		
D704	8-719-977-12	DIODE	DTZ6.8B (GT210/GT212)		
D719	6-501-180-01	DIODE	UDZW-TE17-18B (GT262/GT262S)		
D719	8-719-057-80	DIODE	MA8180-M-TX (GT210/GT212)		
D751	6-501-362-01	DIODE	1A4-TA26		
D752	6-501-362-01	DIODE	1A4-TA26		
D753	6-501-362-01	DIODE	1A4-TA26		
D754	6-501-362-01	DIODE	1A4-TA26		
D755	6-501-362-01	DIODE	1A4-TA26		
D756	6-501-362-01	DIODE	1A4-TA26		
D757	6-501-362-01	DIODE	1A4-TA26		
D758	6-501-362-01	DIODE	1A4-TA26		
D760	6-501-362-01	DIODE	1A4-TA26		
D762	6-501-362-01	DIODE	1A4-TA26		
D903	6-501-170-01	DIODE	UDZW-TE17-6.8B (GT262/GT262S)		
D903	8-719-977-12	DIODE	DTZ6.8B (GT210/GT212)		
		< FERRITE BEAD >			
FB1	1-500-245-11	INDUCTOR, FERRITE BEAD			
FB302	1-216-864-11	SHORT CHIP	0		
FB303	1-216-864-11	SHORT CHIP	0		
FB304	1-216-295-11	SHORT CHIP	0		
FB305	1-216-295-11	SHORT CHIP	0		
FB307	1-216-864-11	SHORT CHIP	0		
FB308	1-216-295-11	SHORT CHIP	0		
FB309	1-216-864-11	SHORT CHIP	0		
FB310	1-216-864-11	SHORT CHIP	0		
FB501	1-216-295-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
FB604	1-500-245-11	INDUCTOR, FERRITE BEAD			
FB605	1-216-864-11	SHORT CHIP	0		
FB606	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC51	6-803-747-01	IC TDA7333013TR (GT210/GT212)			
IC401	6-710-048-01	IC BD3444FS-E2			
IC501	6-806-944-01	IC MB90F045PF-G-9014-SPE1			
IC602	6-709-458-01	IC XC61CN2802NR			
IC750	6-705-360-02	IC TDA8588BJ/N2/R1 (GT262/GT262S)			
IC750	6-705-363-02	IC TDA8589BJ/N2/R1 (GT210/GT212)			
IC901	8-759-681-42	IC NJM12902V(TE2)			
		< JACK >			
J1	1-815-185-13	JACK (ANTENNA)			
		< JUMPER RESISTOR >			
JC1	1-216-864-11	SHORT CHIP	0		
JC501	1-216-864-11	SHORT CHIP	0		
JC504	1-216-864-11	SHORT CHIP	0		
JC527	1-216-821-11	METAL CHIP	1K	5%	1/10W
JC533	1-216-864-11	SHORT CHIP	0		
JC681	1-216-864-11	SHORT CHIP	0		
JC753	1-216-296-11	SHORT CHIP	0		
JC754	1-216-296-11	SHORT CHIP	0		
JC755	1-216-296-11	SHORT CHIP	0		
JC756	1-216-864-11	SHORT CHIP	0		
JC795	1-216-864-11	SHORT CHIP	0		
JC796	1-216-864-11	SHORT CHIP	0		
		< RESISTOR >			
JW52	1-249-425-11	CARBON	4.7K	5%	1/4W
		< COIL >			
L1	1-469-844-11	INDUCTOR	2.2uH		
L51	1-216-295-11	SHORT CHIP	0 (GT210/GT212)		
L301	1-216-295-11	SHORT CHIP	0		
L501	1-216-295-11	SHORT CHIP	0		
L601	1-456-617-11	COIL, CHOKE			
		< TRANSISTOR >			
Q1	6-551-431-01	TRANSISTOR	2SC6027T100-QR		
Q22	1-801-806-11	TRANSISTOR	DTC144EKA (GT210/GT212)		
Q51	8-729-600-22	TRANSISTOR	2SA1235-F (GT210/GT212)		
Q431	8-729-027-44	TRANSISTOR	DTC114TKA-T146		
Q441	8-729-027-44	TRANSISTOR	DTC114TKA-T146		
Q451	8-729-027-44	TRANSISTOR	DTC114TKA-T146		
Q461	8-729-027-44	TRANSISTOR	DTC114TKA-T146		
Q478	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q479	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q580	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q581	1-801-806-11	TRANSISTOR	DTC144EKA		
Q582	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q631	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q651	8-729-120-28	TRANSISTOR	2SC1623-L5L6 (GT210/GT212)		
Q664	8-729-027-23	TRANSISTOR	DTA114EKA-T146		

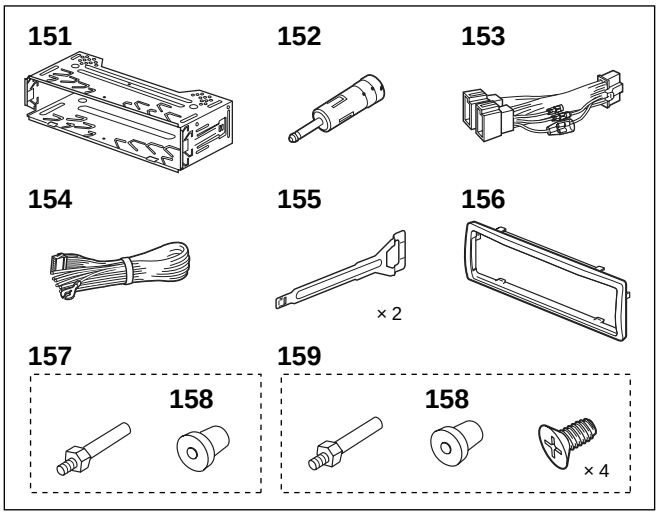
Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R1	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2	1-414-595-11	INDUCTOR, FERRITE BEAD			
R3	1-414-595-11	INDUCTOR, FERRITE BEAD			
R4	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5	1-216-843-11	METAL CHIP	68K	5%	1/10W
R6	1-216-839-11	METAL CHIP	33K	5%	1/10W (GT210/GT212)
R7	1-216-843-11	METAL CHIP	68K	5%	1/10W (GT210/GT212)
R8	1-216-839-11	METAL CHIP	33K	5%	1/10W
R9	1-216-843-11	METAL CHIP	68K	5%	1/10W
R12	1-414-595-11	INDUCTOR, FERRITE BEAD			
R13	1-414-595-11	INDUCTOR, FERRITE BEAD			
R29	1-216-809-11	METAL CHIP	100	5%	1/10W (GT210/GT212)
R51	1-216-797-11	METAL CHIP	10	5%	1/10W (GT210/GT212)
R52	1-216-803-11	METAL CHIP	33	5%	1/10W (GT210/GT212)
R53	1-414-595-11	INDUCTOR, FERRITE BEAD (GT210/GT212)			
R54	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT210/GT212)
R55	1-216-864-11	SHORT CHIP	0 (GT210/GT212)		
R56	1-414-595-11	INDUCTOR, FERRITE BEAD (GT210/GT212)			
R57	1-414-595-11	INDUCTOR, FERRITE BEAD (GT210/GT212)			
R58	1-216-864-11	SHORT CHIP	0 (GT210/GT212)		
R59	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT210/GT212)
R60	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT210/GT212)
R61	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT210/GT212)
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-821-11	METAL CHIP	1K	5%	1/10W
R401	1-216-797-11	METAL CHIP	10	5%	1/10W
R402	1-216-864-11	SHORT CHIP	0		
R403	1-216-864-11	SHORT CHIP	0		
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-821-11	METAL CHIP	1K	5%	1/10W
R432	1-216-833-11	METAL CHIP	10K	5%	1/10W
R441	1-216-821-11	METAL CHIP	1K	5%	1/10W
R442	1-216-833-11	METAL CHIP	10K	5%	1/10W
R451	1-216-821-11	METAL CHIP	1K	5%	1/10W
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R461	1-216-821-11	METAL CHIP	1K	5%	1/10W
R462	1-216-833-11	METAL CHIP	10K	5%	1/10W
R479	1-216-805-11	METAL CHIP	47	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R504	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R505	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT262/GT262S)
R508	1-216-864-11	SHORT CHIP	0		

MAIN

Ref. No.	Part No.	Description			Remark
R509	1-216-812-11	METAL CHIP	180	5%	1/10W
R510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R514	1-216-845-11	METAL CHIP	100K	5%	1/10W
R517	1-216-841-11	METAL CHIP	47K	5%	1/10W
R518	1-216-864-11	SHORT CHIP	0		
R519	1-216-845-11	METAL CHIP	100K	5%	1/10W
R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R522	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R524	1-216-845-11	METAL CHIP	100K	5%	1/10W
R526	1-216-845-11	METAL CHIP	100K	5%	1/10W
R527	1-216-845-11	METAL CHIP	100K	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
R529	1-216-821-11	METAL CHIP	1K	5%	1/10W
R531	1-216-845-11	METAL CHIP	100K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R534	1-216-833-11	METAL CHIP	10K	5%	1/10W
R535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R536	1-216-833-11	METAL CHIP	10K	5%	1/10W
R537	1-216-845-11	METAL CHIP	100K	5%	1/10W
R539	1-216-845-11	METAL CHIP	100K	5%	1/10W
R540	1-216-845-11	METAL CHIP	100K	5%	1/10W
R541	1-216-845-11	METAL CHIP	100K	5%	1/10W
R542	1-216-864-11	SHORT CHIP	0		
R543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R544	1-216-821-11	METAL CHIP	1K	5%	1/10W
R545	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT262:IND/GT262S)
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT262:IND/GT262S)
R547	1-216-864-11	SHORT CHIP	0		
R548	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT262/GT262S)
R550	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT210/GT212)
R551	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT210/GT212/GT262:EA)
R556	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT262/GT262S)
R557	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT262/GT262S)
R559	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT210/GT212)
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W
R563	1-216-845-11	METAL CHIP	100K	5%	1/10W
R564	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT210/GT212)
R565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R566	1-216-845-11	METAL CHIP	100K	5%	1/10W
R567	1-216-845-11	METAL CHIP	100K	5%	1/10W
R568	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT262/GT262S)
R570	1-216-817-11	METAL CHIP	470	5%	1/10W
R573	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT210/GT212)
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R578	1-216-821-11	METAL CHIP	1K	5%	1/10W
R582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R583	1-216-821-11	METAL CHIP	1K	5%	1/10W
R584	1-216-841-11	METAL CHIP	47K	5%	1/10W
R585	1-216-849-11	METAL CHIP	220K	5%	1/10W
R601	1-216-845-11	METAL CHIP	100K	5%	1/10W
R609	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R631	1-249-425-11	CARBON	4.7K	5%	1/4W
R632	1-216-841-11	METAL CHIP	47K	5%	1/10W
R633	1-216-841-11	METAL CHIP	47K	5%	1/10W
R634	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R636	1-216-845-11	METAL CHIP	100K	5%	1/10W
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT210/GT212)
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W (GT210/GT212)
R653	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT210/GT212)
R654	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT210/GT212)
R661	1-216-821-11	METAL CHIP	1K	5%	1/10W
R662	1-216-833-11	METAL CHIP	10K	5%	1/10W
R663	1-216-821-11	METAL CHIP	1K	5%	1/10W
R664	1-216-833-11	METAL CHIP	10K	5%	1/10W
R671	1-216-809-11	METAL CHIP	100	5%	1/10W
R672	1-216-809-11	METAL CHIP	100	5%	1/10W
R673	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R674	1-216-845-11	METAL CHIP	100K	5%	1/10W
R675	1-216-821-11	METAL CHIP	1K	5%	1/10W
R676	1-216-821-11	METAL CHIP	1K	5%	1/10W
R677	1-216-821-11	METAL CHIP	1K	5%	1/10W
R679	1-216-821-11	METAL CHIP	1K	5%	1/10W
R681	1-216-864-11	SHORT CHIP	0		
R691	1-216-845-11	METAL CHIP	100K	5%	1/10W
R692	1-216-845-11	METAL CHIP	100K	5%	1/10W
R694	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT210/GT212)
R752	1-216-811-11	METAL CHIP	150	5%	1/10W
R756	1-216-841-11	METAL CHIP	47K	5%	1/10W
R757	1-216-864-11	SHORT CHIP	0		
R901	1-216-817-11	METAL CHIP	470	5%	1/10W
R902	1-216-817-11	METAL CHIP	470	5%	1/10W
R903	1-216-834-11	METAL CHIP	12K	5%	1/10W
R904	1-216-834-11	METAL CHIP	12K	5%	1/10W
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R907	1-216-845-11	METAL CHIP	100K	5%	1/10W
R910	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R911	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R912	1-216-864-11	SHORT CHIP	0		
R913	1-216-864-11	SHORT CHIP	0		
R914	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
S502	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT)			(GT262:IND/GT262S)

Ref. No.	Part No.	Description	Remark
		< TUNER UNIT >	
TU1	A-3220-960-B	TUNER UNIT (TUX-032) (GT262/GT262S)	
TU1	A-3220-961-B	TUNER UNIT (TUX-032) (GT210/GT212)	
		< VIBRATOR >	
X51	1-813-173-11	VIBRATOR, CRYSTAL (8.664MHz) (GT210/GT212)	
X501	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)	
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	
**********			
	A-1177-201-A	SERVO BOARD, COMPLETE	
		**********	
**********			
		MISCELLANEOUS	
		**********	
7	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER) (GT210/GT212)	
7	1-833-655-11	CORD (WITH CONNECTOR) (POWER) (GT262:EA/GT262S)	
7	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki) (GT262:IND)	
⚠103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
J901	1-820-624-11	JACK (SMALL TYPE) (VERTICAL) (AUX)	
**********			
		ACCESSORIES	
		**********	
	2-699-134-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH) (GT210/GT212)	
	2-699-134-21	MANUAL, INSTRUCTION (ENGLISH,SPANISH, SIMPLIFIED CHINESE) (GT262:IND/GT262S)	
	2-699-134-31	MANUAL, INSTRUCTION (ENGLISH,ARABIC, PERSIAN) (GT262:EA)	
	2-699-134-51	MANUAL, INSTRUCTION (RUSSIAN) (GT210:RU/GT212:RU)	
	2-699-135-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH) (GT210/GT212)	
	2-699-135-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH,SIMPLIFIED CHINESE) (GT262:IND/GT262S)	
	2-699-135-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, ARABIC,PERSIAN) (GT262:EA)	
	2-699-135-51	MANUAL, INSTRUCTION, INSTALL (RUSSIAN) (GT210:RU/GT212:RU)	
	X-2149-228-2	CASE ASSY (for FRONT PANEL)	
**********			

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
151	X-3382-647-1	FRAME ASSY, FITTING	
152	1-465-459-31	ADAPTOR, ANTENNA (GT210/GT212)	
153	1-776-527-82	CORD (WITH CONNECTOR) (ISO) (POWER) (GT210/GT212)	
154	1-833-655-11	CORD (WITH CONNECTOR) (POWER) (GT262:EA/GT262S)	
154	1-833-762-11	CONNECTION CORD FOR AUTOMOBILE (POWER) (for Maruti Suzuki) (GT262:IND)	
155	3-246-471-01	KEY (FRAME)	
156	2-686-803-01	COLLAR	
156	3-255-785-02	COLLAR (1DIN) (for Maruti Suzuki) (GT262:IND)	
157	X-3382-926-1	SCREW ASSY (BS), FITTING (GT210/GT212)	
158	3-349-410-11	BUSHING	
159	X-3381-154-1	SCREW ASSY (BS4), FITTING (GT262/GT262S)	



MEMO

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2006.09	New
1.1	2006.10	Russia model addition to CDX-GT210 and CDX-GT212.
1.2	2007.01	Indian model addition to CDX-GT262.
1.3	2007.03	Notes for removal of the OPTICAL PICK-UP added. (SUPPLEMENT-1) (ENG-07003)